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**CENTERS FOR MEDICARE & MEDICAID SERVICES**  
**CY 2021 ENHANCED**  
**PART C BASELINE OUT-OF-POCKET COST MODEL**  
**USER GUIDE**  
**NOVEMBER 2021**

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## Introduction

The Out-of-Pocket Cost (OOPC) Model is a set of programs used to calculate the estimated OOPCs using a beneficiary sample to determine the value of the benefits being offered by a Plan Benefit Package (PBP). The purpose of this User Guide is to provide Medicare Advantage Organizations (MAO) with the technical information required to generate OOPC values in order to evaluate the changes to the OOPC model. Please note, MAOs will need to calculate their Part C & Part D OOPCs separately and combine them for their total OOPC value.

The **CY 2021 Enhanced Part C Baseline OOPC Model** is identical to the Request for Comment (RFC) Part C OOPC Model shared with stakeholder in June 2020. This model uses an expanded set of MCBS sample beneficiaries and their associated utilization data, compared to the utilization included in previous versions of the OOPC Model. The expanded cohort includes beneficiaries whose status is ESRD at any point during the survey year. In addition, beneficiaries with a missing health status are also included. To allow plans the opportunity to gain familiarity with the changes before implementing them for bid review purposes, CMS is making the CY 2021 Enhanced Part C Baseline OOPC Model available to MAOs. Note that the Part D calculations are done in a separate model.

The OOPC Model is designed to enable plan organizations to review benefit structures using the software and data used by CMS to evaluate annual bid submissions. The OOPC Model reports OOPC values by PBP-based service category at the plan level. MAOs are encouraged to review the more comprehensive Methodology document located in the most recently posted Plan version OOPC Model package at

<https://www.cms.gov/Medicare/Prescription-Drug-Coverage/PrescriptionDrugCovGenIn/OOPCResources.html>

Organizations use their own completed 2021 PBP data as input to the software. After the user has successfully input their data for a particular contract/plan into the PBP, and exit/validated the PBP (a given organization may have multiple plans for a given contract), then the data is ready for use in the model. Users download the OOPC Model and follow the directions for where to copy the SAS programs and SAS data that serve as the other inputs. The user edits several small SAS programs and then executes them.

The CY 2021 Enhanced Part C Baseline OOPC Model package (**OOPC2021-Enhanced-Baseline-PartC.zip**) consists of a set of provided input datasets (SAS transport format) and a series of SAS programs. The programs import PBP and utilization data, calculate person-plan-level costs for each service category, summarize the costs to the plan level, and output the results to a plan-level Excel workbook.

This User Guide for the CY 2021 Enhanced Part C Baseline OOPC Model describes the contents of the OOPC software package, provides specific instructions on how to calculate

OOPC values for the PBP service categories, and explains how to generate output values in the form of an Excel workbook.

**Note:** Benefits and the reduction in cost sharing entered in Section B-19 of the PBP that are offered as part of the Value-Based Insurance Design (VBID) model test, Uniformity Flexibility, or Special Supplemental Benefits for the Chronically Ill (SSBCI) continue to be excluded from the model.

Questions can be directed as follows:

For technical questions about the OOPC model, please submit an email to [OOPC@cms.hhs.gov](mailto:OOPC@cms.hhs.gov)

For Part C policy related questions about Total Beneficiary Cost (TBC), please contact <https://mabenefitsmailbox.lmi.org/>

For Bid Pricing Tool (BPT) questions, please submit questions to [actuarial-bids@cms.hhs.gov](mailto:actuarial-bids@cms.hhs.gov)

## Resource Requirements

Operation of the Model requires that the user be familiar with PC file management and operating SAS software.

**Model Requirements:** The Models have been tested on a variety of PCs. The user will need WINZIP (or similar software) to unzip the OOPC model package and storage space to accommodate the downloadable files that total just under 2 MB zipped. A version of PC SAS with SAS/ACCESS Interface to PC Files installed will be required. The Model was developed and tested using SAS Version 9.4 on 64-bit machines using Windows Office 16. Microsoft Excel is required for generating and using the model output. Testing has been done using 2016 and 2019 versions of Excel and Access.

**Processing Time:** The programs that import the various input files will run quickly. The other programs for the Part C calculations incorporate the claims data for several thousand MCBS respondents and apply the cost-sharing structure for each service category. Also, features such as deductibles and plan maximums are taken into account and the costs adjusted. This process is performed for each plan included in the list of plans input into the OOPC run. Running a single or a few plans at a time will shorten the run time.

## Input Datasets Included in the Software Package

### Utilization Data Provided by CMS

The software includes two primary SAS transport datasets for Part C calculations. The person-level (PERSON.XPT) file contains information on the cohort of beneficiaries in the

2016/2017 MCBS survey. The UTILIZATION.XPT file contains information on this cohort's utilization as reported by the MCBS survey. The datasets are utilized by the software after they are converted to SAS datasets with a SAS program included in the package (CIMPORT.SAS). Note that there are two additional SAS transport datasets that are included and used to support the model run, CATEGORY.XPT and FORMATS.XPT.

## Input Datasets Provided by the User

### Plan List

The user will provide a text file list of the plans to be included in an OOPC run. This file (**PLANFILE.TXT**) will consist of a combined Contract/Plan/Segment identifier. For example, Contract Plan Segment: H9999 001 001 will appear as H9999001001.

### *Planfile.txt Record Layout*

**Required File Format = ASCII File - Tab Delimited**

**Do not include a header record**

**Filename extension should be ".TXT"**

| Field Name            | Field Type | Field Length | Field Description                       | Sample Field Value(s) |
|-----------------------|------------|--------------|---|-----------------------|
| Contract_Plan_Segment | CHAR       | 11           | Unique Contract/Plan/Segment identifier | H9999001000           |

Parts of an example file look like:

```
H9999001000
H9998002000
H9997003000
H9996001001
```

**Note:** Only plans in the plan list will be run in the OOPC calculation, even if more plans exist in a user's PBP database.

### PBP Data

Each year, plan personnel and other users are required to enter their benefit data into the Plan Benefit Package (PBP) software in order to submit a bid. Plans are provided with instructions each year on how to enter data into the PBP software. See the PBP System Reference Guide for PBP instructions.

**PBP Data Input to OOPC Tool:** As part of this bid submission process, the PBP data is automatically stored in an Access database. The OOPC Model reads a plan's PBP data

from the Access database as input. The PBP-created databases required as input to the Model are **PBP2021.MDB** and **PBPPLANS2021.MDB**. The location of these files is a user input in the OOPC software.

**Note:** The OOPC Model should point to the databases associated with the PBP Super User. If there are other PBP data entry users, the Super User should ensure that he or she has received the most up-to-date data entry before running the OOPC Model.

## Programs Included in the Software Package

The complete list of SAS Programs utilized by the model can be found in the **Contents of the Zip File** section below. The key programs that launch the computations are described below:

**CIMPORT.SAS** converts the SAS transport files supplied with this software into SAS datasets.

**OOPCV1P.SAS** supplies user-defined parameters needed to run the OOPC Model and calls the other SAS programs that carry out the calculations.

## Instructions for Running the Model and Creating OOPC Values

Please read and follow the instructions carefully before running the software. Note that this assumes the PBP has already been completed for the plan(s) of interest.

**Step 1:** Create a text file (**PLANFILE.TXT**) that lists the plans to be used in the OOPC run.

**Step 2:** Complete the PBP data entry for plans of interest using the PBP software. The resulting files will be named **PBP2021.MDB** and **PBPPLANS2021.MDB**. Make a note of the location of these files: e.g., c:\program files\PBP2021.

**Step 3:** Set up directory locations for all files.

- a. Copy the file **OOPC2021-Enhance-Baseline-PartC.zip** to a working directory (e.g., **c:\oopc\_c**) and unzip its contents to that directory.
- b. In the working directory, extract **CIMPORT.SAS** and **OOPCV1P.SAS** to create the **c:\oopc\_c\programs** directory for the SAS programs modified by the user.
- c. In the working directory, extract all other programs in the zip file to create the **c:\oopc\_c\input** directory for the input files and the programs that are not changed by the user.
- d. Set up a directory for the output spreadsheet file (e.g., **c:\oopc\_c\output**).
- e. Copy the **PLANFILE.TXT** file to the newly created programs file directory. (e.g., **c:\oopc\_c\programs**).

**Step 4:** Edit the program **CIMPORT.SAS** as necessary so that the location (**in bold below**) of the input data is specified for all of the .XPT files. The programs provided in the model package contain, as defaults, the directory locations listed above. The user can change these locations, as desired.

```
* PROGRAM: CIMPORT.SAS;  
* DESCRIPTION: IMPORT THE INPUT FILES TO THE OOPC PROCESS;  
  
%LET DATALOC = %str(c:\oopc_c\input);
```

Then run **CIMPORT.SAS**.

For all SAS runs, check the SAS Log to make sure the text string **ERROR** does not appear anywhere. (In the **Troubleshooting** section below are noted several sources of problems when setting up and running the programs).

**Note:** The SAS CIMPORT program only needs to run once, prior to the first OOPC run.

**Step 5:** Edit the program **OOPCV1P.SAS** as shown below to indicate the directories (**in bold**) where the SAS programs and input files are stored. The programs provided in the model package contain, as defaults, the directory locations listed above. Also, edit the program to indicate where the PBP data are stored. Finally, edit the program to identify the location and name of the output spreadsheet file. The output spreadsheet name can be changed as necessary.

For example, in the “**OOPC** =&OUTPUT.**OOPC\_RUN**&file\_date.” line, to identify the first run for a given day, change the default label “**OOPC\_RUN**” to “**OOPC\_RUN1\_**.” (The “&file\_date” function automatically outputs the date of the run.)

```
* PROGRAM: OOPCV1P.SAS;  
* DESCRIPTION: MAIN OOPC PROGRAM;  
  
%LET INPUTDIR =      c:\oopc_c\input;  
%LET PROGDIR  =      c:\oopc_c\programs;  
%LET PBPDIR   =      c:\pbp2021;  
%LET PLANFILEDIR =    c:\oopc_c\programs;  
%LET OUTPUT   =      c:\oopc_c\output;  
  
%OOPCV1M(RUNYEAR     =2021,  
  INP                =IN1.PERSON,  
  INC                =IN1.UTILIZATION,  
  CATEG              =IN1.CATEGORY,  
  PBP                =&PBPDIR,  
  PLANFILE           =&PLANFILEDIR\PLANFILE.TXT,  
  OOPC               =&OUTPUT.OOPC_RUN&file_date..xlsx);
```

Then run **OOPCV1P.SAS**.

When checking the SAS Log for the run, the run time is determined by looking at the last few lines of a successful run. For example:

**NOTE: The SAS System used:**

**real time**            **1:36.67**  
**cpu time**            **43.10 seconds**

The resulting Excel spreadsheet file (.xlsx) will be written to the designated output file directory when the program finishes running successfully. The category fields display the expected average monthly cost for the contract plan segment by PBP-based benefit category. **Total** displays the sum of the categories.

An example (truncated) of the resulting spreadsheet output is shown below (test data):

| Plan Name                                  | Benefit Year | Inpatient_Hospital_Acute_Care | Emergency/Post-Stabilization_Servic | Preventative_Denta | Comprehensive_Denta | Total       | PartD       | Grand_Total | PBP_Version_Date   |
|--|--------------|-------------------------------|-------------------------------------|--------------------|---------------------|-------------|-------------|-------------|--------------------|
| RFB MA-PD A/B Full Network EA (PFFS)       | 2021         | 1.892246835                   | 3.232286335                         | 5.474742884        | 9.507833393         | 77.67573702 | 79.85772893 | 157.5334659 | 12FEB2020:09:02:14 |
| RFB MA-PD A/B DS (HMO-POS)                 | 2021         | 3.408045801                   | 3.065460663                         | 5.556109325        | 20.44281657         | 109.4218335 | 132.4860344 | 241.907868  | 12FEB2020:09:08:10 |
| 1876 MA-Only A/B (Cost)                    | 2021         | 36.37428986                   | 0                                   | 25.40107671        | 27.65318663         | 162.6271559 | 324.819     | 487.4461559 | 12FEB2020:09:10:46 |
| RFB MA-PD A/B Partial Network AE (PFFS)    | 2021         | 16.24279214                   | 2.711473679                         | 25.40107671        | 27.65318663         | 135.9631215 | 79.85772893 | 215.8208504 | 12FEB2020:09:12:30 |
| MA-PD A/B SNP Chronic/Disabling EA (HMO-P) | 2021         | 2.116594058                   | 3.362124369                         | 9.274605306        | 19.87363791         | 100.0687408 | 79.85772893 | 179.9264697 | 12FEB2020:09:33:51 |
| MA-PD A/B Full Network BA (PFFS)           | 2021         | 4.916764986                   | 3.20678818                          | 5.462566991        | 9.446472413         | 91.43793628 | 132.4860344 | 223.9239707 | 12FEB2020:09:36:20 |
| MA-Only A/B Full Network (MSA)             | 2021         | 30.79947193                   | 0                                   | 11.88385235        | 17.09297926         | 94.74392338 | 296.5164295 | 391.2603529 | 12FEB2020:09:36:32 |
| RFB MA-PD A/B DS (PPO)                     | 2021         | 14.14056877                   | 2.005553684                         | 25.40107671        | 27.65318663         | 183.8391299 | 79.85772893 | 263.6968588 | 12FEB2020:09:42:28 |
| MA-PD A/B EA (PPO)                         | 2021         | 13.35370566                   | 1.885422762                         | 25.40107671        | 27.65318663         | 188.9655892 | 107.4453955 | 296.4109847 | 12FEB2020:10:37:11 |
| RFB MA-PD A/B DS (HMO)                     | 2021         | 3.483609845                   | 3.207242736                         | 5.463269421        | 9.449375795         | 79.03421057 | 132.4860344 | 211.520245  | 12FEB2020:10:36:49 |
| MA-PD A/B BA (Regional PPO)                | 2021         | 13.05527641                   | 2.893397038                         | 5.556109325        | 20.44281657         | 166.614726  | 132.5286085 | 299.1433345 | 12FEB2020:10:41:34 |
| PD-Only EA (PDP)                           | 2021         |                               |                                     |                    |                     |             | 142.0362582 | 142.0362582 | 12FEB2020:08:42:01 |

**Note:** The plan level deductible category allocation is not displayed. The plan deductible is allocated proportionately to each individual category estimates as appropriate.

## Rerunning the Model

**Change Plan Benefits for a Plan:** To change the plan benefit assumptions, for the same plan(s) first modify the appropriate PBP data entry.

**Change Plans:** To change plans, modify the PBP data entry and change the PLANFILE.TXT.

## Contents of the Output (Excel) File

The output from the OOPC Model is a single Excel file. The table below lists the labels as they appear in the output file and in the corresponding detailed heading.

**Note:** Labels used in the output file are restricted to no more than 32 characters by SAS.

| Label Used in Output Files | Detailed Heading/Description |
|----------------------------|------------------------------|
| Contract_Number            | Contract Number              |
| Plan_ID                    | Plan ID                      |



| Label Used in Output Files            | Detailed Heading/Description                                       |
|---------------------------------------|--|
| Segment_ID                            | Segment ID   |
| Organization_Marketing_Name           | Organization Marketing Name  |
| Plan_Name                             | Plan Name  |
| Benefit_Year                          | Benefit Year/PBP for Estimated OOPC Values                         |
| Inpatient_Hospital_Acute_Care         | Inpatient Hospital Services including Acute OOPC Value             |
| Inpatient_Mental_Health_Care          | Inpatient Psychiatric Hospital Services OOPC                       |
| Skilled_Nursing_Facility              | Skilled Nursing Facility OOPC Value                                |
| Cardiac_Rehabilitation_Services       | Cardiac Rehabilitation Services OOPC Value                         |
| Pulmonary_Rehab_Services              | Pulmonary Rehabilitation Services OOPC Value                       |
| Emergency/Post-Stabilization_Services | Emergency/Post-Stabilization Services OOPC Value                   |
| Urgently_Needed_Services              | Urgently Needed Services OOPC Value                                |
| Home_Health_Agency                    | Home Health Services OOPC Value                                    |
| Primary_Care_Physician                | Primary Care Physician Services OOPC Value                         |
| Chiropractic_Services                 | Chiropractic Services OOPC Value                                   |
| Occupational_Therapy                  | Occupational Therapy Services OOPC Value                           |
| Physician_Specialists                 | Physician Specialist Services OOPC Value                           |
| Outpatient_Mental_Health_Care         | Mental Health Specialty Services - Non-Physician OOPC Value        |
| Podiatry_Services                     | Podiatry Services OOPC Value                                       |
| Other_Health_Professionals            | Other Health Care Professional Services OOPC Value                 |
| Psychiatric_Care                      | Psychiatric Services OOPC Value                                    |
| Physical_and_Speech_Therapy           | Physical Therapy and Speech-Language Pathology Services OOPC Value |
| Outpatient_Lab                        | Outpatient Lab Services OOPC Value                                 |
| Diagnostic_Tests_and_Procedures       | Outpatient Diag Tests/Procedures OOPC Value                        |
| Therapeutic_Radiation                 | Therapeutic Radiological Services OOPC Value                       |
| Outpatient_X_Rays                     | Outpatient X-Ray Services OOPC Value                               |
| Diagnostic_Radiological_Services      | Diagnostic Radiological Services OOPC Value                        |
| Outpatient_Hospital_Services          | Outpatient Hospital Services OOPC Value                            |
| Ambulatory_Surgical_Center            | Ambulatory Surgical Center (ASC) Services OOPC Value               |
| Chemotherapy/Radiation_Drugs          | Chemotherapy/Radiation Drugs OOPC Value                            |
| Ambulance                             | Ambulance Services OOPC Value                                      |
| Durable_Medical_Equipment             | Durable Medical Equipment OOPC Value                               |
| Prosthetic_Devices                    | Prosthetics and Other Medical Supplies OOPC Value                  |
| Renal_Dialysis                        | End-Stage Renal Disease Services OOPC Value                        |
| Diabetes_Education                    | Diabetes Education OOPC Value                                      |
| Medicare_Covered_Part_B_Drugs         | Medicare Part B Rx Drugs and Home Infusion Drugs OOPC Value        |
| Preventative_Dental                   | Preventive Dental OOPC Value                                       |
| Comprehensive_Dental                  | Comprehensive Dental OOPC Value                                    |
| Eye_Exams                             | Eye Exams OOPC Value   |

| Label Used in Output Files | Detailed Heading/Description  |
|----------------------------|---|
| Hearing_Exams              | Hearing Exams OOPC Value  |
| Opioid_Treatment_Programs  | Opioid Treatment Programs OOPC Value  |
| Total                      | Total Costs (Excluding Part D Drugs and including calculated plan deductible) |
| PBP_Version_Date           | PBP Version Date  |

## Contents of the ZIP File (OOPC2021-Enhance-Baseline-PartC.zip)

ANNUALIZATION.SAS  
 BASEID\_PLAN\_YEAR.SAS  
 CATEGORY.XPT  
 CIMPORT.SAS  
 CLEANUP.SAS  
 CONVERT.SAS  
 COST\_SHARING\_AMBULANCE.SAS  
 COST\_SHARING\_ASC.SAS  
 COST\_SHARING\_CARDIAC\_REHAB.SAS  
 COST\_SHARING\_CHIROPRACTIC.SAS  
 COST\_SHARING\_COMPREHENSIVE\_DENTAL.SAS  
 COST\_SHARING\_COMP\_XRAY.SAS  
 COST\_SHARING\_DIAG.SAS  
 COST\_SHARING\_DIALYSIS.SAS  
 COST\_SHARING\_DME.SAS  
 COST\_SHARING\_EDUCATION\_DIABETES.SAS  
 COST\_SHARING\_ER.SAS  
 COST\_SHARING\_EYEEXAMS.SAS  
 COST\_SHARING\_HEARINGEXAMS.SAS  
 COST\_SHARING\_HHA.SAS  
 COST\_SHARING\_INPATIENT\_ACUTE.SAS  
 COST\_SHARING\_INPATIENT\_PSYCH.SAS  
 COST\_SHARING\_LAB.SAS  
 COST\_SHARING\_MEDICARE\_DRUGS.SAS  
 COST\_SHARING\_MEDICARE\_DRUGS\_CHEMO.SAS  
 COST\_SHARING\_MNTLHLTH.SAS  
 COST\_SHARING\_OPIOID.SAS  
 COST\_SHARING\_ORTHOTICS.SAS  
 COST\_SHARING\_OT.SAS  
 COST\_SHARING\_OTHER.SAS  
 COST\_SHARING\_OUTPAT.SAS  
 COST\_SHARING\_PCP.SAS  
 COST\_SHARING\_PODIATRY.SAS  
 COST\_SHARING\_PREVENTIVE\_DENTAL.SAS

COST\_SHARING\_PSYCH.SAS  
 COST\_SHARING\_PT.SAS  
 COST\_SHARING\_PULMONARY\_REHAB.SAS  
 COST\_SHARING\_RADIATION.SAS  
 COST\_SHARING\_SNF.SAS  
 COST\_SHARING\_SPECIALIST.SAS  
 COST\_SHARING\_SUPPLIES.SAS  
 COST\_SHARING\_URGENT\_CARE.SAS  
 COST\_SHARING\_XRAY.SAS  
 formats.xpt  
 MISSING\_CELLS\_YEAR.SAS  
 OOPCV1M.SAS  
 OOPCV1P.SAS  
 PBPCATS.SAS  
 PBP\_IMPORT.SAS  
 PBP\_IMPORT\_CMS.SAS  
 PERSON.XPT  
 PLAN\_CATNAME\_NEW.SAS  
 PLAN\_DEDUCTIBLE.SAS  
 PLAN\_LEVEL.SAS  
 UTILIZATION.XPT

## Troubleshooting

Below are several areas where users may have problems running the model.

### Wrong or Missing Directory Locations

If an input directory is does not exist, the following type of error can show up in the SAS log while attempting to run the **CIMPORT.SAS**.

**NOTE: Library IN does not exist.**

**ERROR: Library IN does not exist.**

**NOTE: Library OUTPUT does not exist.**

**ERROR: Physical file does not exist, c:\oopc\_c\input\person.xpt**

If an incorrect directory name for input data is listed in the OOPCV1P.SAS program, the following type of error may be displayed in the SAS log.

%LET DIR = c:\oopc\_c\input (correct)

%LET DIR = c:\oopc\_c\inp (incorrect)

**ERROR: Library INP does not exist.**

## Problems with Output Files

Each new SAS run should have a new unique output file name designated in the **OOPCVIP.SAS** program. If you do not change the name from a previously created Excel file, the new SAS run will overwrite the old file contents, or if the current Excel file is open, will not produce output at all. An example error message is shown below:

**ERROR: The MS Excel table OOPCS\_2021 has been opened for OUTPUT. This table already exists, or there is a name conflict with an existing object. This table will not be replaced. This engine does not support the REPLACE option.**  
**ERROR: Export unsuccessful. See SAS Log for details.**

Another message will be generated if you forget to create an output directory. For example,

**ERROR: Connect: 'c:\oopc\_c\output\OOPC\_RUN2021V1\_20210515.xls' is not a valid path. Make sure that the path name is spelled correctly and that you are connected to the server on which the file resides.**  
**ERROR: Error in the LIBNAME statement.**

Also, you may submit a run, find no “Error” messages in the **OOPCVIP.SAS** program, and yet find no Excel output file. One way this can happen is if the plan identifiers in the PLANLIST.TXT file are filled out without the final 3 segment identifiers, e.g.:

H9999001

## Problems with Insufficient Hard Drive Space

If you have been running the model repeatedly, you may encounter the following error message:

**WARNING: File 'WORK.xxxxxx.DATA' is shorter than expected.**  
**ERROR: The file WORK.xxxxxx.DATA is shorter than expected.**  
**ERROR: The file WORK.xxxxxx.DATA is shorter than expected.**  
**ERROR: The file WORK.xxxxxx.DATA is shorter than expected.**  
**WARNING: Data set WORK.yyyyyy was not replaced because this step was stopped.**  
**ERROR: The open failed because library member WORK.xxxxxx.DATA is damaged.**  
**ERROR: The open failed because library member WORK.xxxxxx.DATA is damaged.**  
**ERROR: The open failed because library member WORK.xxxxxx.DATA is damaged.**

This problem means that SAS does not have sufficient hard disk space for its temporary files. You can reboot your machine so that more memory is available to SAS. Also, check

that you do not have 'leftover' SAS temporary directories. An example of SAS temporary directories that may remain from other sessions under 'My Computer' is:

```
c:\Documents and Settings\yourname\Local Settings\Temp\SAS Temporary  
Files\  
with subdirectories such as:  
TD_XXXXX  
SAS_util000100000150_machinename
```

### **Part C Output Expected, but Blank or Zeroes**

When you have completed your PBP data entry, make sure you have exit/validated from the program.

### **Running the Model Using an Older Version of SAS**

The OOPC has been developed and tested using SAS 9.4. Prior versions of SAS may not support all the functions and procedure used in the software.