The Comforter Post-Processor requires 4\* input file. All inputs need to be formatted as a tab delimited text file.

\*The input file has Filepath as a field for each case, so the number of input files is actually 4 + the number of cases being run.

Inputs:

Supply File: This input is the supply file used to do the MARATHON run. If this file is in an excel notebook, it needs to be exported as a tab delimited text file.

Demand File: This input is the demand file used to do the MARATHON run. If this file is an excel notebook, it needs to be exported as a tab delimited text file.

Cost File: This input is the AC O&S cost file. It includes a list of SRCs and their cost. This file has to be formatted as a tab delimited text file.

Example of Cost File:

|  |  |
| --- | --- |
| src | total\_cost |
| 0128K0000 | 1,234 |
| 10473K000 | $5678 |
| 01205K000 | $9,123.45 |

Input Template File: The final input is the template file. This file contains the list of cases to be analyzed along with the location to the MARATHON requirement analysis output file (formatted as a tab delimited text file), and other descriptor attributes to information about the case. There can any number of additional description column for each case, but at a minimum there must be a column with the header “Case” and a column with the header “Filepath”.

The Filepath that corresponds to the given MARATHON output file that was calculated for that specific case (Different cases should have different files). Every case requires a valid path to a MARATHON output file – the program will not run there are any empty or invalid paths in this column. If a case does not have a valid filepath, then it needs to be removed from the input template file.

Example of a filled out Input Template File:

|  |  |  |
| --- | --- | --- |
| Case | Filepath | Demand ISC Description |
| BASE | C:\Users\michael.m.pavlak\Desktop\reqA.txt | Sc. 7 + Sc 3.1 Deny + HLD + CT thru Surge | |
| Excursion\_1 | C:\Users\michael.m.pavlak\Desktop\reqB.txt | Sc. 7 + Sc 3.1 Deny + HLD + CT Surge only | | |

\*This file is the equivalent of the VBA Comforter Post Processor template file, columns A-K with the addition of a Filepath column.

When the program (jar file) is run, 5 file select menus fill appear, asking for the corresponding input files (The specific input file is the listed as the title of the window). The first 4 menus are to select the input files. The fifth menu will ask for an output directory. The output directory and input file are selected, the program will create the output called ‘Requirement Analysis Comforter Output.txt’ in the specified output directory.

When viewing the output file in excel, the data is already correctly formatted as strings in the .txt file, so the cell format for the entire spreadsheet should be for text, otherwise, Excel will try to automatically format the output (removes leading zeros and interprets ratios as times).