Project Summary Form Directions

Follow these directions to compute the project estimates and complete the summary form:

PLANNING PHASE:

Programmer: Enter your name
Program: Enter the name or title of the program or module.
Date: Enter today's date

Time in Phase – Estimated: Estimate the total time to complete the current programming assignment and distribute it over all project phases. Make best possible guess (use informal estimation procedure directions provided).

Program Size (LOC) Estimated: Enter the program size estimate (LOC) from the Estimating Worksheet.
LOC/Hour Estimated: Use your most recent PSP program and find your LOC/hour to date and note it as the estimated value.
Defects/KLOC Estimated: Use your most recent PSP program and find your Defects/KLOC to date and note it as the estimated value.

POSTMORTEM PHASE:

Time in Phase – Actual: At project completion, enter the actual time in minutes spent in each development phase. Get these data from Time Recording Log. Post mortem time is spent completing this summary form.

Total Time – Actual: Calculate the sum of the times for all phases and enter the sum here.

Time in Phase – To date: For each phase, add actual time to the to date time from the most recent previous PSP program, and enter the sum here.

Total Time – To date: Add total actual time to the total to date time from the most recent previous program, and enter the sum here.

Time in Phase To Date %: For each phase, enter 100 times the To date time for that phase divide by the Total To date time. Round to one decimal place.

Total Time To Date%: Sum the individual To Date% for all the phases. Verify that the total is 100%. Enter 100 here.

Defects Injected in Phase – Actual: At project completion, enter the actual number of defects injected in each development phase (get these data from the Defect Recording Log).

Total Defects Injected – Actual: Calculate the sum of the Defects for all phases and enter the sum here.

Defects Injected in Phase – To Date: For each phase, add Actual Defects Injected to the To Date Defects from the most recent PSP program, and enter the sum here.

Total Defects Injected – To Date: Add Total Defects Injected (31) to the Total To Date Defects from the most recent PSP program, and enter the sum here. Check: Calculate the total of the individual To Date Defects for all the phases.

Defects Injected in Phase – To Date %: For each phase, enter 100 times the To Date Defects for that

phase divided by the Total To Date Defects.

Total Defects Injected To Date %: Sum the individual To Date % for all the phases. Verify that the total is within 1% of 100%. Enter 100 here.

Defects Removed in Phase – Actual: At project completion, enter the actual number of defects removed in each development phase. (Get these data from the Defect Recording Log.)

Total Defects Removed – Actual: Calculate the sum of the Defects for all phases and enter the sum here. Check: This sum should be the same as Total Defects Injected.

Defects Removed in Phase – For each phase, add Actual Defects Removed to the To Date Defects Removed from the most recent PSP program, and enter the sum here.

Total Defects Removed – To Date: Add Total Defects Removed to the Total To Date Defects from the most recent PSP program, and enter the sum here. Check: Calculate the total of the individual To Date Defects for all the phases.

Defects Removed in Phase – To Date %: For each phase, enter 100 times the To Date Defects for that phase divided by the Total To Date Defects.

Total Defects Removed - To Date %: Sum the individual To Date % for all the phases (34). Verify that the total is 100%. Enter 100 here.

Actual Defects Removed – After Development: Enter here any defects found and removed during product release. (That is, any time after you judge development is complete, including formal acceptance testing).

To Date Defects Removed – After Development: When a defect is discovered after finishing this form, it is necessary to recalculate the To Date Release Defects for ALL SUBSEQUENT project summary forms.

Program Size (LOC) Actual: Enter the actual program size (LOC) after implementation is completed.

Program Size (LOC) To Date: Use the program size (LOC) from the most recent PSP program and add to the actual program size for this current program

LOC/Hour Actual: Divide Actual Program Size by Total Time multiplied by 60. For example, 45 lines written in 90 minutes, productivity = 45 / 90 * 60 = 30

LOC/Hour To Date: Divide Program Size To Date by Total Time To Date multiplied by 60.

Defects/KLOC Actual: Multiply the Total Actual Defects (25) by 1000 and divide by the Program Size. For example, with 17 defects to date and 153 Total New & Changed LOC, defects/KLOC To Date = 1000 * 17 / 153 = 111.11.

Defects/KLOC To Date: Multiply the Total To Date Defects by 1000 and divide by the Program Size To Date.