SQA Metric Items From FPA Spreadsheet -September 2018

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Abstract

Evaulation of various potential matrics, performance indicators from the Excel workbook that Software Quality Assurance collected called First Pass Acceptance. This will only be run for the month of September 2018.

Contents

1 2	IntroductionData and Calculations2.1 Data	1 1 1 2		4.8	Number of Deliverable by Application Number of Approvals, Disapprovals, and First Pass Approvals	4
3	Work Yet to be Completed 3.1 Formula 3.2 Trending 3.2.1 Graphs	2 2 2 2		4.11	Table of Deliverables by Application Table of Rejection Reasons Defects Verses Applica-	6 22
4	Quanity Metrics 4.1 Application supported . 4.2 Number of Projects 4.3 Number of Reviews 4.4 Number of Items Reviewed 4.5 Number of Projects	2 2 3 3 3		4.13 4.14	tion	22 24 27 27
	Started	3 3 4	5	Rat 5.1 5.2	r r	28 28 28

 $^{^{1}\}mathrm{Date}$ Ran: Monday 1^{st} October, 2018 at 10:40

1 Introduction

The data is processed using R², Version 3.5.1 named "Feather Spray". The only extension (package or library) utilized is lubridate (version 1.7.4) to provide key functionality in the processing of dates.

The data is read into R from a comma seperated value (csv) file which is derived (saved) from the spreadsheet without modification. Additional values are computed as needed.

This report is prepared in the R environment using a collection of packages know as Sweave that included knitr which in turn feeds the package into LATEX 2_{ε} a typeseting program to produce a PDF file. LATEX 2_{ε} in implented in MiTeX. LATEX 2_{ε} is utilizing the following packages to control style and formating:

- datetime and
- multitoc

This will only show a point in time summary and no trends.

2 Data and Calculations

2.1 Data

A seperate data dictionary will be prepared to for both the source data and computed values stored in R.

2.2 Calculations

All calculations presented here have not been implemented in R as formulas.

3 Work Yet to be Completed

3.1 Formula

Some calculations would be better implemented as formulas. The calculations need to be evulated and the formulas developed where needed.

3.2 Trending

Eventually the "System" will be updated to select the data on a for a calander month. After processing the resulots will be stored in a seperate file. This will allow for longer term trending of this data.

3.2.1 Graphs

When "trending" is implented graphs of the trends will also be added.

 $^{^2\}mathrm{RS}$ tudio is utilized as an IDE

4 Quanity Metrics

4.1 Application supported

This is a list of all application support this period.

Note: Alphabatize the list

```
[1] "GS Reports"
[2] "DFCS"
[3] "IRIS"
[4] "Apollo/PHM"
[5] "Helios"
[6] "GDSN/GS1"
[7] "RSLMS"
[8] "EDMS"
[9] "WWLIMS"
[10] "MQA Protocol"
[11] "Pulse"
[12] "CMSNext"
[13] "ADD Shop Floor Paper (SFP) Report System"
[14] "Power BI"
[15] "QPI"
[16] "Metrics Library"
[17] "AFMS"
[18] "Print on Demand"
```

4.2 Number of Projects

The total number of projects worked on in this period. This may differ from the application list because some applications may have more than one project in the periond.

[1] 28

4.3 Number of Reviews

This is the number of items reviewed, a document will be counted more than once if it is reviewed more than once.

[1] 224

4.4 Number of Items Reviewed

This is the number of unique items reviewed, each item is only counted once regardless of how many times it is reviewed.

Note: This is reporting low due to certian items having no way to descrimate between such as multiple executions of the same test script or results from an IIVP run on different computers within the same project.

4.5 Number of Projects Started

The point at which a project is started is when version 1 of the *Software Change Request* is approved.

Note: This now counts ML type projects (Metrics Library and GS Reports) using the Project Plan as the point that a project starts.

[1] 9

4.6 Projects Completed

The point at which a project is considered completed is when version 1 of the *System Certification Summary* is approved.

Note: now counts GS (Global Service) Reports Move to Production as the end of project.

[1] 5

4.7 Number Of Deliverables by Type

This is unique for each deliverable. It only counts each document once so a deliverable that is disapproved and then approved is only counted once.

Cancellation	CII
0	8
Decommissioning Report	Design Documentation
0	1
Design Verification	ERES
6	1
FRS	IDP
9	2
IIVP	IIVP results
13	9
IIVP Results	ISSD
7	1
Maintenance Plan	Move to Production
0	3
Other	Project Plan
2	4
Release Notes	Risk Assessment
0	0
Software Change Request	Software Compliance Assessment
14	3
System Certification Summary	Test protocol
4	8

Test Protocol Results	Test Protocol
TOBU TIOUCCOI REBUIUS	1650 11000001
21	30
URS	Traceability
5	6
User Acceptance Protocol	URS/FRS
3	0
Validation Plan	User Acceptance Protocol results
1	0

4.8 Number of Deliverable by Application

This is the number of unique deliverables that each application submitted. It only counts each document once, regardless of the status.

```
Abbott Transfusion Medicine
ADD Shop Floor Paper (SFP) Report System
                                      AFMS
                                         1
         Alinity S Non-LIMS spreadsheets
                 Alinity Source Verifier
                                       AMM
                                         0
                                AP 24 CIP
                               Apollo/PHM
                      Assay File Database
           BioCommand Batch Control Plus
                                         0
                                   {\tt CMSnext}
                                         0
                                  CMSNext
                                        25
                  DARA Filler DHM and RU
                                         0
                                  DaVinci
                                         0
                                     DFCS
                                         9
                                      DPW
                                         0
```

```
EDMS
            eNovator
        EP Evaluator
            GDSN/GS1
           Groninger
          GS Reports
              Helios
           ideaPoint
                IRIS
Knowledge Management
     Metrics Library
        MQA Protocol
           Navigator
             PCN/SCN
                PEAR
                   0
            Power BI
     Print on Demand
               Pulse
                  20
                QIMS
                  0
                 QPI
     Reliasoft Xfmea
               RSLMS
                  10
                 SAS
                   0
```

TestComplete
0
TODS
0
TrendReader
0
WWLIMS
13

4.9 Number of Approvals, Disapprovals, and First Pass Approvals

A A-FP D 71 80 73

4.10 Table of Deliverables by Application

	Cancellation	CII
Abbott Transfusion Medicine	0	0
ADD Shop Floor Paper (SFP) Report System	0	0
AFMS	0	0
Alinity S Non-LIMS spreadsheets	0	0
Alinity Source Verifier	0	0
AMM	0	0
AP 24 CIP	0	0
Apollo/PHM	0	1
Assay File Database	0	0
BioCommand Batch Control Plus	0	0
CMSnext	0	0
CMSNext	0	3
DARA Filler DHM and RU	0	0
DaVinci	0	0
DFCS	0	0
DPW	0	0
EDMS	0	1
eNovator	0	0
EP Evaluator	0	0
GDSN/GS1	0	0
Groninger	0	0
GS Reports	0	0
Helios	0	0
ideaPoint	0	0
IRIS	0	0
Knowledge Management	0	0
Metrics Library	0	0
MQA Protocol	0	0

Navigator	0	0
PCN/SCN	0	0
PEAR	0	0
Power BI	0	0
Print on Demand	0	0
Pulse	0	2
QIMS	0	0
QPI	0	0
Reliasoft Xfmea	0	0
RSLMS	0	1
SAS	0	0
TestComplete	0	0
TODS	0	0
TrendReader	0	0
WWLIMS	0	0

Decommissioning Report 0

	becommissioning Report
Abbott Transfusion Medicine	0
ADD Shop Floor Paper (SFP) Report System	0
AFMS	0
Alinity S Non-LIMS spreadsheets	0
Alinity Source Verifier	0
AMM	0
AP 24 CIP	0
Apollo/PHM	0
Assay File Database	0
BioCommand Batch Control Plus	0
CMSnext	0
CMSNext	0
DARA Filler DHM and RU	0
DaVinci	0
DFCS	0
DPW	0
EDMS	0
eNovator	0
EP Evaluator	0
GDSN/GS1	0
Groninger	0
GS Reports	0
Helios	0
ideaPoint	0
IRIS	0
Knowledge Management	0
Metrics Library	0
MQA Protocol	0
Navigator	0

PCN/SCN			0
PEAR			0
Power BI			0
Print on Demand			0
Pulse			0
QIMS			0
QPI			0
Reliasoft Xfmea			0
RSLMS			0
SAS			0
TestComplete			0
TODS			0
TrendReader			0
WWLIMS			0
	Design	Documentation	
Abbott Transfusion Medicine	Ü	0	
ADD Shop Floor Paper (SFP) Report System		0	
AFMS		0	
Alinity S Non-LIMS spreadsheets		0	
Alinity Source Verifier		0	
AMM		0	
AP 24 CIP		0	
Apollo/PHM		0	
Assay File Database		0	
BioCommand Batch Control Plus		0	
CMSnext		0	
CMSNext		0	
DARA Filler DHM and RU		0	
DaVinci		0	
DFCS		0	
DPW		0	
EDMS		0	
eNovator		0	
EP Evaluator		0	
GDSN/GS1		0	
Groninger		0	
GS Reports		0	
Helios		0	
ideaPoint		0	
IRIS		0	
Knowledge Management		0	
Metrics Library		0	
MQA Protocol		0	
Navigator		0	
PCN/SCN		0	

PEAR	0
Power BI	0
Print on Demand	0
Pulse	0
QIMS	0
QPI	0
Reliasoft Xfmea	0
RSLMS	0
SAS	0
TestComplete	0
TODS	0
TrendReader	0
WWLIMS	1

Design Verification ERES FRS IDP Abbott Transfusion Medicine ADD Shop Floor Paper (SFP) Report System AFMS Alinity S Non-LIMS spreadsheets Alinity Source Verifier MMAAP 24 CIP Apollo/PHM Assay File Database BioCommand Batch Control Plus ${\tt CMSnext}$ CMSNext DARA Filler DHM and RU DaVinci DFCS DPW **EDMS** eNovator EP Evaluator GDSN/GS1 Groninger GS Reports Helios ideaPoint IRIS Knowledge Management Metrics Library MQA Protocol Navigator PCN/SCN PEAR

Power BI Print on Demand Pulse QIMS QPI Reliasoft Xfmea RSLMS SAS				0 0 2 0 1 0	0 0 0 0 0	0 0 2 0 2 0 0	0 0 0 0 0 0	
TestComplete				0	0	0	0	
TODS				0	0	0	0	
TrendReader				0	0	0	0	
WWLIMS				0	1	0	0	
	TTVD	TTVD	results	TTVD	Pog	ul+a	TQQI	n
Abbott Transfusion Medicine	0	TIVE	1esults	TIVE	nes	0		0
ADD Shop Floor Paper (SFP) Report System	2		0			2		0
AFMS	0		0			0		0
Alinity S Non-LIMS spreadsheets	0		0			0	(С
Alinity Source Verifier	0		0			0	(С
AMM	0		0			0	(С
AP 24 CIP	0		0			0	(С
Apollo/PHM	3		2			1	(О
Assay File Database	0		0			0		С
BioCommand Batch Control Plus	0		0			0		О
CMSnext	0		0			0		0
CMSNext	3		1			4		0
DARA Filler DHM and RU	0		0			0		0
DaVinci	0		0			0		0
DFCS DPW	0		0			0))
EDMS	1		0			0)
eNovator	0		0			0		0
EP Evaluator	0		0			0		0
GDSN/GS1	0		0			0		0
Groninger	0		0			0	(О
GS Reports	0		0			0	(С
Helios	0		0			0	(С
ideaPoint	0		0			0	(С
IRIS	0		0			0	(С
Knowledge Management	0		0			0		О
Metrics Library	0		0			0		О
MQA Protocol	0		0			0		0
Navigator	0		0			0		0
PCN/SCN	0		0			0		0
PEAR Person PI	0		0			0		0
Power BI	0		0			0	(С

Print on Demand	0	0	0	0
Pulse	1	1	0	0
QIMS	0	0	0	0
QPI	0	0	0	0
Reliasoft Xfmea	0	0	0	0
RSLMS	1	3	0	0
SAS	0	0	0	0
TestComplete	0	0	0	0
TODS	0	0	0	0
TrendReader	0	0	0	0
WWLIMS	2	2	0	1

Maintenance Plan Move to Production

	Maintenance Plan	Move to Production
Abbott Transfusion Medicine	0	0
ADD Shop Floor Paper (SFP) Report System	0	0
AFMS	0	0
Alinity S Non-LIMS spreadsheets	0	0
Alinity Source Verifier	0	0
AMM	0	0
AP 24 CIP	0	0
Apollo/PHM	0	0
Assay File Database	0	0
BioCommand Batch Control Plus	0	0
CMSnext	0	0
CMSNext	0	0
DARA Filler DHM and RU	0	0
DaVinci	0	0
DFCS	0	0
DPW	0	0
EDMS	0	0
eNovator	0	0
EP Evaluator	0	0
GDSN/GS1	0	0
Groninger	0	0
GS Reports	0	3
Helios	0	0
ideaPoint	0	0
IRIS	0	0
Knowledge Management	0	0
Metrics Library	0	0
MQA Protocol	0	0
Navigator	0	0
PCN/SCN	0	0
PEAR	0	0
Power BI	0	0
Print on Demand	0	0

Pulse	0	0
QIMS	0	0
QPI	0	0
Reliasoft Xfmea	0	0
RSLMS	0	0
SAS	0	0
TestComplete	0	0
TODS	0	0
TrendReader	0	0
WWLIMS	0	0

	Other	Project	Plan	Release	Notes
Abbott Transfusion Medicine	0		0		0
ADD Shop Floor Paper (SFP) Report System	0		0		0
AFMS	0		0		0
Alinity S Non-LIMS spreadsheets	0		0		0
Alinity Source Verifier	0		0		0
AMM	0		0		0
AP 24 CIP	0		0		0
Apollo/PHM	1		0		0
Assay File Database	0		0		0
BioCommand Batch Control Plus	0		0		0
CMSnext	0		0		0
CMSNext	0		0		0
DARA Filler DHM and RU	0		0		0
DaVinci	0		0		0
DFCS	0		0		0
DPW	0		0		0
EDMS	0		0		0
eNovator	0		0		0
EP Evaluator	0		0		0
GDSN/GS1	0		0		0
Groninger	0		0		0
GS Reports	0		3		0
Helios	0		0		0
ideaPoint	0		0		0
IRIS	0		0		0
Knowledge Management	0		0		0
Metrics Library	0		1		0
MQA Protocol	0		0		0
Navigator	0		0		0
PCN/SCN	0		0		0
PEAR	0		0		0
Power BI	0		0		0
Print on Demand	0		0		0
Pulse	0		0		0

QIMS	0	0	0
QPI	0	0	0
Reliasoft Xfmea	0	0	0
RSLMS	0	0	0
SAS	0	0	0
TestComplete	0	0	0
TODS	0	0	0
TrendReader	0	0	0
WWLIMS	1	0	0

Risk Assessment

	TUIDII TIDDODDINOTIO
Abbott Transfusion Medicine	0
ADD Shop Floor Paper (SFP) Report System	0
AFMS	0
Alinity S Non-LIMS spreadsheets	0
Alinity Source Verifier	0
AMM	0
AP 24 CIP	0
Apollo/PHM	0
Assay File Database	0
BioCommand Batch Control Plus	0
CMSnext	0
CMSNext	0
DARA Filler DHM and RU	0
DaVinci	0
DFCS	0
DPW	0
EDMS	0
eNovator	0
EP Evaluator	0
GDSN/GS1	0
Groninger GS Reports	0
GS Reports Helios	0
ideaPoint	0
IRIS	0
Knowledge Management	0
Metrics Library	0
MQA Protocol	0
Navigator	0
PCN/SCN	0
PEAR	0
Power BI	0
Print on Demand	0
Pulse	0
QIMS	0

QPI	0
Reliasoft Xfmea	0
RSLMS	0
SAS	0
TestComplete	0
TODS	0
TrendReader	0
WWLIMS	0

Software Change Request

A11 TI C : W 1: :	seremere emerge medaese
Abbott Transfusion Medicine	0
ADD Shop Floor Paper (SFP) Report System	0
AFMS	1
Alinity S Non-LIMS spreadsheets	0
Alinity Source Verifier	0
AMM	0
AP 24 CIP	0
Apollo/PHM	0
Assay File Database	0
BioCommand Batch Control Plus	0
CMSnext	0
CMSNext	3
DARA Filler DHM and RU	0
DaVinci	0
DFCS	2
DPW	0
EDMS	0
eNovator	0
EP Evaluator	0
GDSN/GS1	2
Groninger	0
GS Reports	0
Helios	1
ideaPoint	0
IRIS	1
Knowledge Management	0
Metrics Library	0
MQA Protocol	1
Navigator	0
PCN/SCN	0
PEAR	0
Power BI	0
Print on Demand	0
Pulse	1
QIMS	0
QPI	0
•	

Reliasoft Xfmea RSLMS SAS TestComplete TODS TrendReader WWLIMS			0 1 0 0 0 0 0
	Software	Compliance	Assessment
Abbott Transfusion Medicine		•	0
ADD Shop Floor Paper (SFP) Report System			0
AFMS			0
Alinity S Non-LIMS spreadsheets			0
Alinity Source Verifier			0
AMM			0
AP 24 CIP			0
Apollo/PHM			0
Assay File Database			0
BioCommand Batch Control Plus			0
CMSnext			0
CMSNext			0
DARA Filler DHM and RU			0
DaVinci			0
DFCS			0
DPW			0
EDMS			0
eNovator			0
EP Evaluator			0
GDSN/GS1			0
Groninger			0
GS Reports			0
Helios			1
ideaPoint			0
IRIS			1
Knowledge Management			0
Metrics Library			0
MQA Protocol			0
Navigator PCN/SCN			0
PEAR			0
Power BI			0
Print on Demand			0
Pulse			0
QIMS			0
QPI			0
Reliasoft Xfmea			0
			v

RSLMS				0
SAS				0
TestComplete				0
TODS				0
TrendReader				0
WWLIMS				1
	System	Certification	Summary	
Abbott Transfusion Medicine			0	
ADD Shop Floor Paper (SFP) Report System			0	
AFMS			0	
Alinity S Non-LIMS spreadsheets			0	
Alinity Source Verifier			0	
AMM			0	
AP 24 CIP			0	
Apollo/PHM			0	
Assay File Database			0	
BioCommand Batch Control Plus			0	
CMSnext			0	
CMSNext			1	
DARA Filler DHM and RU			0	
DaVinci			0	
DFCS			0	
DPW			0	
EDMS			0	
eNovator			0	
EP Evaluator			0	
GDSN/GS1			0	
Groninger			0	
GS Reports			0	
Helios			0	
ideaPoint			0	
IRIS			0	
Knowledge Management			0	
Metrics Library			0	
MQA Protocol			0	
Navigator			0	
PCN/SCN			0	
PEAR			0	
Power BI			0	
Print on Demand			0	
Pulse			0	
QIMS			0	
QPI			0	
Reliasoft Xfmea			0	
RSLMS			1	

SAS		0
TestComplete		0
TODS		0
TrendReader		0
WWLIMS		2
	Test protocol	Test Protocol
Abbott Transfusion Medicine	0	0
ADD Shop Floor Paper (SFP) Report System	0	0
AFMS	0	0
Alinity S Non-LIMS spreadsheets	0	0
Alinity Source Verifier	0	0
AMM	0	0
AP 24 CIP	0	0
Apollo/PHM	8	19
Assay File Database	0	0
BioCommand Batch Control Plus	0	0
CMSnext	0	0
CMSNext	0	5
DARA Filler DHM and RU	0	0
DaVinci	0	0
DFCS	0	0
DPW	0	0
EDMS	0	0
eNovator	0	0
EP Evaluator	0	0
GDSN/GS1	0	0
Groninger	0	0
GS Reports	0	0
Helios ideaPoint	0	0
IRIS	0	0
	0	0
Knowledge Management Metrics Library	0	0
MQA Protocol	0	0
Navigator	0	0
PCN/SCN	0	0
PEAR	0	0
Power BI	0	0
Print on Demand	0	1
Pulse	0	4
QIMS	0	0
QPI	0	0
Reliasoft Xfmea	0	0
RSLMS	0	1
SAS	0	0
	_	-

TestComplete	0	0
TODS	0	0
TrendReader	0	0
WWLIMS	0	0

Test Protocol Results Traceability Abbott Transfusion Medicine ADD Shop Floor Paper (SFP) Report System AFMS Alinity S Non-LIMS spreadsheets Alinity Source Verifier AMM AP 24 CIP Apollo/PHM Assay File Database BioCommand Batch Control Plus CMSnext ${\tt CMSNext}$ DARA Filler DHM and RU DaVinci **DFCS** DPW **EDMS** eNovator EP Evaluator GDSN/GS1 Groninger GS Reports Helios ideaPoint IRIS Knowledge Management Metrics Library MQA Protocol Navigator PCN/SCN PEAR Power BI Print on Demand Pulse QIMS QPI Reliasoft Xfmea RSLMS SAS TestComplete

TODS	0	0
TrendReader	0	0
WWLIMS	1	0

	URS	URS/FRS	User	Acceptance	Protocol
Abbott Transfusion Medicine	0	0			0
ADD Shop Floor Paper (SFP) Report System	0	0			0
AFMS	0	0			0
Alinity S Non-LIMS spreadsheets	0	0			0
Alinity Source Verifier	0	0			0
AMM	0	0			0
AP 24 CIP	0	0			0
Apollo/PHM	1	0			0
Assay File Database	0	0			0
BioCommand Batch Control Plus	0	0			0
CMSnext	0	0			0
CMSNext	0	0			0
DARA Filler DHM and RU	0	0			0
DaVinci	0	0			0
DFCS	0	0			3
DPW	0	0			0
EDMS	0	0			0
eNovator	0	0			0
EP Evaluator	0	0			0
GDSN/GS1	1	0			0
Groninger	0	0			0
GS Reports	0	0			0
Helios	0	0			0
ideaPoint	0	0			0
IRIS	1	0			0
Knowledge Management	0	0			0
Metrics Library	0	0			0
MQA Protocol	0	0			0
Navigator	0	0			0
PCN/SCN	0	0			0
PEAR	0	0			0
Power BI	0	0			0
Print on Demand	0	0			0
Pulse	2	0			0
QIMS	0	0			0
QPI	0	0			0
Reliasoft Xfmea	0	0			0
RSLMS	0	0			0
SAS	0	0			0
TestComplete	0	0			0
TODS	0	0			0

Irendkeader	U	U	U
WWLIMS	0	0	0

User Acceptance Protocol results Abbott Transfusion Medicine ADD Shop Floor Paper (SFP) Report System 0 0 0 Alinity S Non-LIMS spreadsheets Alinity Source Verifier 0 AMM 0 AP 24 CIP 0 Apollo/PHM 0 Assay File Database 0 BioCommand Batch Control Plus 0 CMSnext 0 CMSNext 0 DARA Filler DHM and RU 0 DaVinci 0 **DFCS** 0 DPW 0 **EDMS** 0 eNovator 0 EP Evaluator 0 GDSN/GS1 0 0 Groninger GS Reports 0 Helios 0 ideaPoint0 IRIS 0 Knowledge Management 0 Metrics Library 0 MQA Protocol 0 Navigator 0 PCN/SCN 0 PEAR 0 Power BI 0 Print on Demand 0 Pulse 0 QIMS 0 QPI 0 Reliasoft Xfmea 0 RSLMS 0 SAS 0 TestComplete 0 TODS 0 TrendReader 0 WWLIMS

	Validation	Plan
Abbott Transfusion Medicine		0
ADD Shop Floor Paper (SFP) Report System		0
AFMS		0
Alinity S Non-LIMS spreadsheets		0
Alinity Source Verifier		0
AMM		0
AP 24 CIP		0
Apollo/PHM		0
Assay File Database		0
BioCommand Batch Control Plus		0
CMSnext		0
CMSNext		0
DARA Filler DHM and RU		0
DaVinci		0
DFCS		0
DPW		0
EDMS		0
eNovator		0
EP Evaluator		0
GDSN/GS1		0
Groninger		0
GS Reports		0
Helios		0
ideaPoint		0
IRIS		0
Knowledge Management		0
Metrics Library		0
MQA Protocol		0
Navigator		0
PCN/SCN		0
PEAR		0
Power BI		0
Print on Demand		0
Pulse		0
QIMS		0
QPI		1
Reliasoft Xfmea		0
RSLMS		0
SAS		0
TestComplete		0
TODS		0
TrendReader		0
WWI TMS		0

4.11 Table of Rejection Reasons

Inaccurate information	Incorrect scope
47	0
Insufficient testing	Insufficient traceability
1	3
N/A	Not compliant with procedure
1	1
Not following configuration management	Not following document version control
1	3
Not using template	Other
0	14
Requirement deficiency	
0	

4.12 Defects Verses Application

	${\tt Inaccurate}$	information	Incorrect	scope	Insufficient	testing
AFMS		1		0		0
Apollo/PHM		8		0		0
CMSNext		5		0		1
DFCS		4		0		0
EDMS		1		0		0
GDSN/GS1		0		0		0
Helios		1		0		0
IRIS		6		0		0
MQA Protocol		3		0		0
Print on Demand		0		0		0
Pulse		8		0		0
QPI		2		0		0
RSLMS		3		0		0
WWLIMS		5		0		0

	Insufficient	traceability	N/A	Not	compliant	with	procedure
AFMS		0	0				0
Apollo/PHM		3	0				0
CMSNext		0	1				0
DFCS		0	0				0
EDMS		0	0				0
GDSN/GS1		0	0				0
Helios		0	0				0
IRIS		0	0				0
MQA Protocol		0	0				0
Print on Demand		0	0				1
Pulse		0	0				0
QPI		0	0				0

RSLMS WWLIMS				0 0	0				0	
	Not :	following	configura	ation	mar	nagement				
AFMS			00111 1841			0				
Apollo/PHM						0				
CMSNext						0				
DFCS						0				
EDMS						0				
GDSN/GS1						1				
Helios						0				
IRIS						0				
MQA Protocol						0				
Print on Demand						0				
Pulse						0				
QPI						0				
RSLMS						0				
WWLIMS						0				
	Not :	following	document	vers	ion	${\tt control}$	Not	using	template	
AFMS						0			0	
Apollo/PHM						0			0	
CMSNext						2			0	
DFCS						0			0	
EDMS						0			0	
GDSN/GS1						0			0	
Helios						0			0	
IRIS						0			0	
MQA Protocol						0			0	
Print on Demand						0			0	
Pulse						0			0	
QPI						1			0	
RSLMS						0			0	
WWLIMS						0			0	
	O+ho	r Require	ment defic	cienc	3 <i>7</i>					
AFMS		o nequire.	TOTIC GELL		y O					
Apollo/PHM		8			0					
CMSNext		5			0					
DFCS		0			0					
EDMS		0			0					
GDSN/GS1		0			0					
Helios		0			0					
IRIS		0			0					
MQA Protocol		0			0					
Drint on Domand		0			^					

 ${\tt MQA\ Protocol}$ Print on Demand

Pulse	0	0
QPI	1	0
RSLMS	0	0
WWLIMS	0	0

4.13 Defects Verses Deliverable

> table(as.character(subset(FPA, subset = (status == "D"))\$deliverable),

+ subset(FPA, subset = (status == "D"))\$reason)

	Inaccurate	information	Incorrect	scope
CII		0		0
Design Documentation		1		0
Design Verification		2		0
FRS		3		0
IDP		1		0
IIVP		3		0
IIVP results		2		0
IIVP Results		1		0
Other		0		0
Software Change Request		14		0
System Certification Summary		4		0
Test protocol		3		0
Test Protocol		5		0
Test Protocol Results		1		0
Traceability		3		0
URS		2		0
Validation Plan		2		0

	Insufficient	testing	Insufficient	traceability
CII		0		0
Design Documentation		0		0
Design Verification		0		0
FRS		0		0
IDP		0		0
IIVP		0		0
IIVP results		0		0
IIVP Results		0		0
Other		0		0
Software Change Request		0		0
System Certification Summary		0		0
Test protocol		0		3
Test Protocol		1		0
Test Protocol Results		0		0
Traceability		0		0
URS		0		0

Validation Plan 0 0

	N/A	Not	compliant	${\tt with}$	procedure
CII	0				0
Design Documentation	0				0
Design Verification	0				0
FRS	0				0
IDP	1				0
IIVP	0				0
IIVP results	0				0
IIVP Results	0				0
Other	0				0
Software Change Request	0				0
System Certification Summary	0				0
Test protocol	0				0
Test Protocol	0				1
Test Protocol Results	0				0
Traceability	0				0
URS	0				0
Validation Plan	0				0

Not following configuration management

CII	0
Design Documentation	0
Design Verification	0
FRS	1
IDP	0
IIVP	0
IIVP results	0
IIVP Results	0
Other	0
Software Change Request	0
System Certification Summary	0
Test protocol	0
Test Protocol	0
Test Protocol Results	0
Traceability	0
URS	0
Validation Plan	0

Not following	document	version	control
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CII	1
Design Documentation	0
Design Verification	0
FRS	1
חח	0

IIVP	0
IIVP results	0
IIVP Results	0
Other	0
Software Change Request	0
System Certification Summary	0
Test protocol	0
Test Protocol	0
Test Protocol Results	0
Traceability	1
URS	0
Validation Plan	0

	Not	using	template	Other	${\tt Requirement}$	deficiency
CII			0	0		0
Design Documentation			0	0		0
Design Verification			0	1		0
FRS			0	1		0
IDP			0	0		0
IIVP			0	2		0
IIVP results			0	1		0
IIVP Results			0	1		0
Other			0	2		0
Software Change Request			0	0		0
System Certification Summary			0	0		0
Test protocol			0	0		0
Test Protocol			0	0		0
Test Protocol Results			0	5		0
Traceability			0	1		0
URS			0	0		0
Validation Plan			0	0		0

4.14 Rejection Reason by Deliverable

CII	Design Documentation
CII	Design Documentation
2	1
Design Verification	FRS
3	6
IDP	IIVP
2	5
IIVP results	IIVP Results
4	2
Other	Software Change Request
2	14
System Certification Summary	Test protocol
4	6

Test Protocol	Test Protocol Results
7	6
Traceability	URS
5	2
Validation Plan	
2	

4.15 Number of Rejections by Project

AFMS	Apollo/PHM	CMSNext	DFCS	EDMS
1	20	15	4	1
GDSN/GS1	Helios	IRIS	MQA Protocol I	Print on Demand
1	1	6	3	1
Pulse	QPI	RSLMS	WWLIMS	
8	4	3	5	

5 Rate Metrics

5.1 Document Approval Rate

This is portion of documents that are approved upon review.

It is computed by counting the number of approvals devided that by the total number of reviews.

[1] 0.6651786

5.2 First Pass Acceptance

this is the portion of documents that are approved on the first review conducted by SQA.

It is computed by counting the number of first pass approvals devided by the number of reviews.

[1] 0.3571429