



United States Army Corps of Engineers- ERDC/CERL

# BUILDER Custom Reports- Specific to US Air Force

For: AFCEC (Air Force Civil Engineering Center)

01/04/2019

Reconciliation of USAF Custom Reports.

Archived Reports: AFMFH Catalog – Flatfile, BUILDER Catalog – With Section Counts, C-1 Craftsman Report, Facility Image Hierarchy with Counts, PM 02 – PMOSS Report – With Supplemental, QA 01 - Missing or Low Inventory, QA 02 - Missing Comments, QA 05 - Missing Section Details, QA 06 - Missing Section Detail Images, QA 08 - Section Details Without Inspections, QA 09 - Section Detail Discrepancies, QA 12B - InspectorMatrix – ByInstSys, QA 13 - Assessment Progress Report, rptDD1391, USAF Facility Count by Organization, QC 08 – FCI Summary Report.

New Reports: BUILDER Catalog, QA 13 A Assessment Progress Report, QA 13B 5 Year Assessment Progress Report, QA 13 A & B Summary Reports, Scenario Summary, User List.

Restored Reports: Final 02 - System Summary, QC 01 – Facility Report.

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## BUILDER Custom Reports for the U.S. Air Force

The BUILDER Standard\_Reports are built into the code base for the BUILDER SMS Application. The Standard Reports provide users with some of the most basic and frequently requested outputs. These reports comprise a report suite common to all BUILDER instances and clients across the board. Since the BUILDER Standard Reports are in the code base for the BUILDER SMS application, modifications to these can be a difficult and time consuming process.

In contrast, the **BUILDER Custom Reports** are developed OUTSIDE of the code base for the BUILDER SMS Application. The custom reports are generally based on queries, views and stored procedures specifically created for each Custom Report and hierarchy level within a BUILDER database and linked to formatted report files which are deployed from a Report Server outside of BUILDER. These reports are relatively easier to modify, design and implement than the Standard Reports, expanding the reporting capabilities beyond what is provided in the Standard Reports.

In addition, several data tables, including Real Property data and Preventative Maintenance data, have been added to the USAF BUILDER database and linked to specific Custom Reports to meet the USAF's reporting needs. These data elements are not utilized by the BUILDER SMS application nor maintained through the BUILDER interface but have been linked for reporting purposes only through the Custom Reports. These data tables are periodically updated in the BUILDER database with updates supplied by USAF.

Each Custom Report is developed for the specific hierarchy level in BUILDER the report will be run from. Although the same named report may be available at several hierarchy levels in a BUILDER inventory, the underlying data requirements are different, so each level is in technically a different report. In addition, some reports available at a specific level may not make sense at another hierarchy level. For example an ORGANIZATION level report may not make sense at a BUILDING level and may not therefore be available at that level. The Custom Reports (see Figure 1) menus will differ depending upon what hierarchy level in BUILDER a report is launched. Reports can be launched in BUILDER from the ORGANIZATION (🏠), SITE (📍), COMPLEX (🏢), and BUILDING (🏠) levels.

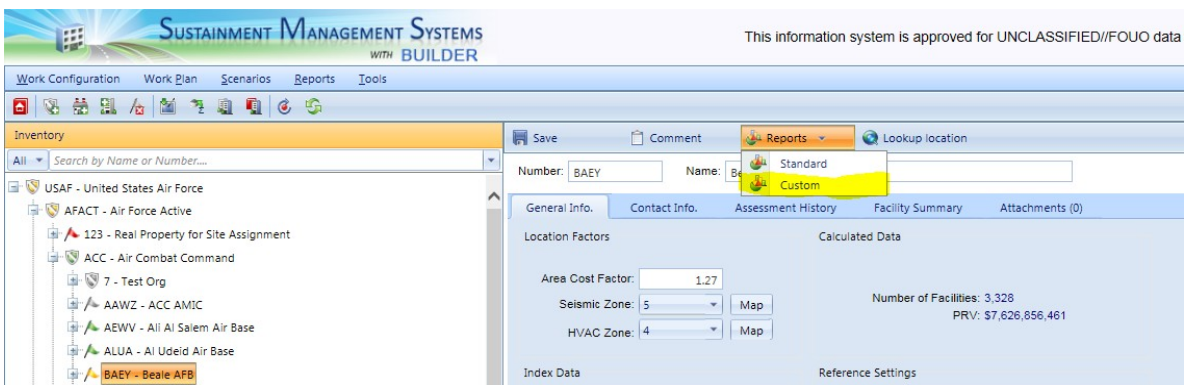


Figure 1: Location of Custom Reports in BUILDER 3.3.12. (This example shows the Site level Custom Reports being selected.)

At the Site level only those custom reports available at the Site level will be selectable from the Custom Reports menu.

That is, if a user has selected a SITE within the BUILDER Inventory hierarchy tree and then chooses the Custom Reports menu, the drop-down menu (see Figure 2) will display a list of SITE level reports. This drop-down menu may offer considerably different choices if a user had selected an ORGANIZATION, COMPLEX or BUILDING level.

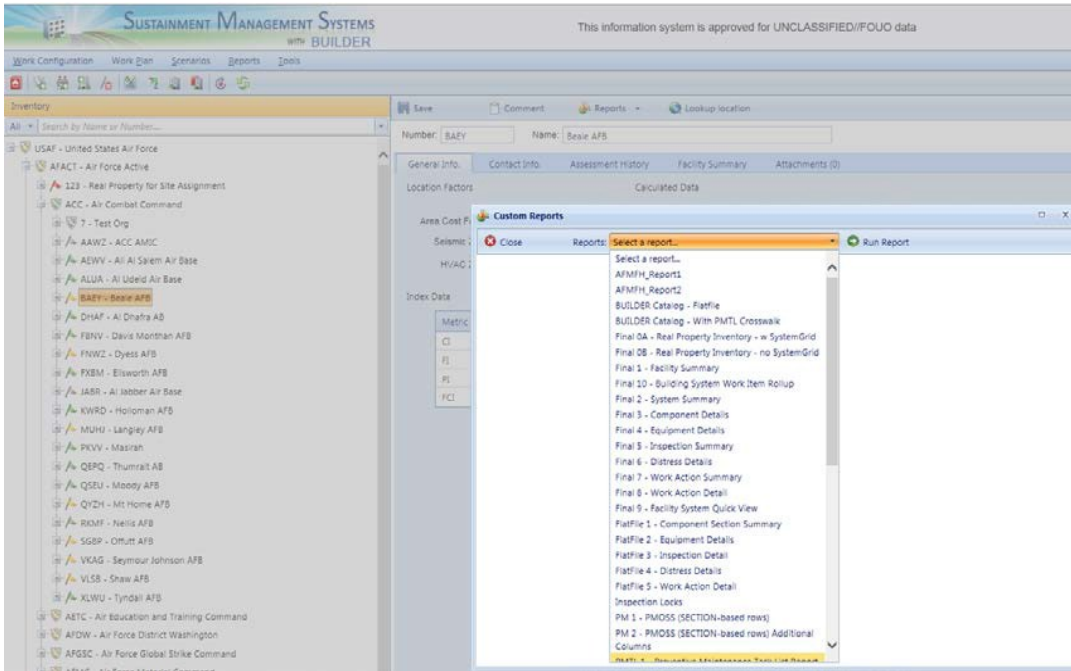


Figure 2: List of Custom Reports (Example showing Custom Reports available at the Site Name level).

When a custom report is launched from the drop-down menu, BUILDER will send a “key” to the report at run-time and the report will be filtered using that “key”. For example, when a SITE level report is chosen, BUILDER will send the SITE key to the report and the report will be filtered to deliver results for that Site only. The same goes for reports at the ORGANIZATION, COMPLEX and BUILDING levels. A key will be passed to the report to act as a filter and the report will deliver results for that single ORGANIZATION, single COMPLEX or single BUILDING that was chosen at run-time.

There may be other filters inherent in the report. Unless otherwise noted in the description of the Custom Reports found on the Pages 9 through 67, the output will not be filtered other than using the run-time filter of ORGANIZATION, SITE, COMPLEX or BUILDING discussed in the previous paragraph.

There are a few reports that will run (unfiltered) against the full USAF data-set, but due to the enormous number of records in the USAF BUILDER database, these reports will be few and not generally recommended. Since they would take too long to run or time out, this handful of reports are configured in the REPORT SERVER to run at night when network traffic is at a minimum. The results are saved as a “report snapshot”. This means that when the user runs these reports from BUILDER, they are viewing the latest snapshot. The snapshot will pop up rather quickly, but since in some cases these reports return a huge dataset, the snapshot may still take a longer time to export to EXCEL.

Some large bases should use COMPLEXES to reduce the size of reports and not attempt to run reports at the SITE level. Some reports may time out if the dataset is too large or if the network becomes too congested for the report server to return the results back to your internet browser. If time outs occur a base may ask Customer Support for assistance in running a report.

Some reports are designed to be printable and **exportable to PDF** for printing or distributing. Other reports are tabular in nature and are designed to be **exportable to EXCEL**. See the table on Pages 7 and 9 to see for which type of output the report is designed.

## List of BUILDER Custom Reports

Report Name	BUILDER-LEVEL					Formatted For export to:	See Page for Details.
	All USAF	ORG	SITE	CPLX	BLDG		
AFMFH Report 01			X			EXCEL	Page 10
AFMFH Report 02			X			EXCEL	Page 12
BUILDER Catalog	X	X	X			EXCEL	Page 13
BUILDER Catalog – With PMTL Crosswalk	X	X	X			EXCEL	Page 14
Building Thumbnail Images					X	PDF	Page 15
Final 0A - Real Property Inventory - w SystemGrid	*SS	X	X			EXCEL	Page 16
Final 0B - Real Property Inventory - no SystemGrid	X	X	X			EXCEL	Page 19
Final 01 - Building Summary	X	X	X	X	X	EXCEL	Page 21
Final 02 – System Summary Report	X	X	X	X	X	EXCEL	Page 22
Final 03A – Component-Section Report	X	X	X	X	X	EXCEL	Page 23
Final 03B – IHA Component-Section Report	X	X	X			EXCEL	Page 24
Final 04 - Equipment Details	X	X	X	X		EXCEL	Page 25
Final 05 - Inspection Summary	X	X	X	X	X	EXCEL	Page 26
Final 06 - Distress Survey Details	X	X	X	X	X	EXCEL	Page 27
Final 07 - Work Action Summary	X	X	X	X	X	EXCEL	Page 29
Final 08 - Work Action Details	X	X	X	X	X	EXCEL	Page 31
Final 09 - Building System Quick View	X	X	X	X	X	EXCEL	Page 33
Final 10 – Building System Work Item Rollup		X	X			EXCEL	Page 35
FlatFile 01 - Component Section Summary			X	X		EXCEL	Page 36
FlatFile 02 - Equipment Details			X	X		EXCEL	Page 37
FlatFile 03 - Inspection Details			X	X		EXCEL	Page 38
FlatFile 04 - Distress Details			X	X		EXCEL	Page 39
FlatFile 05 - Work Action Details			X	X		EXCEL	Page 40
Inspection Locks Report			X	X		EXCEL	Page 42
Inspection Report With Images			X	X	X	EXCEL	Page 43
PM 01 – PMOSS Report	X	X	X			EXCEL	Page 44
PMTL 01 – Preventive Maintenance Task List Report	X	X	X			EXCEL	Page 46
QA 03 - Naming Discrepancies			X	X		EXCEL	Page 47
QA 04 - Suspect Section Inventory			X	X		EXCEL	Page 48
QA 07 - Sections Without Inspections			X	X		EXCEL	Page 49



Report Name	BUILDER-LEVEL					Formatted For export to:	See Page for Details.
	All USAF	ORG	SITE	CPLX	BLDG		
QA 10 - Missing Inspection Section Comments			X	X		EXCEL	Page 50
QA 11 - Section Condition Analysis Exception			X	X		EXCEL	Page 51
QA 12A - Inspection Matrix - System Inspection Summary by Inspector			X	X		PDF	Page 52
QA 12C - Inspection Matrix - Inspector Inspection Summary by System			X	X		PDF	Page 53
QA 12D - Inspection Matrix - Inspector Inspection Summary			X	X		PDF	Page 54
QA 12E - Inspection Matrix - System Summary			X	X		PDF	Page 55
QA 13A – Assessment Progress Report	X	X	X	X		EXCEL	Page 56
QA 13B – Assessment Progress Report 5 year	X	X	X	X		EXCEL	Page 56
QA 13A – Assessment Progress Report Summary	X	X				EXCEL	Page 56
QA 13B – Assessment Progress Report 5 year Summary	X	X				EXCEL	Page 56
QA Review (Formerly DIGON QA Review)			X	X	X	EXCEL	Page 59
QC01 - Facility Report			X	X	X		Page 61
QC 02 - System Report			X	X		EXCEL	Page 62
QC 03 - Component Report			X	X	X	EXCEL	Page 63
QC 04 - Component-Section			X	X	X	EXCEL	Page 64
QC 05 - Section Details			X	X	X	EXCEL	Page 65
QC 06 - Inspection Report			X	X	X	EXCEL	Page 66
Scenario Summary			X			EXCEL	Page 68
Section Report With Images					X	EXCEL	Page 69
User List		X	X			EXCEL	Page 70

## AFMFH Report 01

### **Basic Description:**

Site level report specific to the Air Force Military Family Housing Organization only. Displays facilities and pertinent data for the AFMFH facilities based on projections from a scenario data set.

### **If this report is tabular, then what are the rows?**

Each row is a unique BUILDING.

### **Is this report filtered? If so, how?**

The report automatically uses the data set from the last scenario run for the selected site under the BUILDER Scenario Module. The name of the scenario used in the report is displayed under “Scenario Name” on the report. The report shows all BUILDINGS that were included in the scenario.

Report can be executed at the SITE level only.

### **Additional Notes:**

This report uses BUILDER Scenario data from the last scenario ran against the selected site, generated in the BUILDER Scenario Module. The BUILDER Scenario Module is a simulation tool that allows evaluation of facility investment policies and funding approaches. The Scenario Module uses the BUILDER database and coded processes to forecast maintenance, repair, and replacement work requirements for up to ten years into the future.

For this report a scenario must have already been run against the selected Site in order to populate this report. For the AFMFH Report 01, these scenarios are normally accomplished by the Housing AMP Manager and staff at AFCEC/CI.

A 10 year scenario is required to populate the report for the entire 10 year report period. The FY in the column names of the BCI and SYSTEM CI columns will change depending on what the “BASE YEAR” (starting FY for the scenario) was when the scenario data was generated. For example: If a 10 year scenario is used starting in 2018 the report will reflect projected BCI’s from 2018 – 2027 and System CI’s for 2018.

Sum of Work Items is the sum of the costs for the projected work items in the building over the period of the scenario.

Sum of CRV is the sum of the calculated replacement cost for the Sections inventoried for the building.

Building PRV is the building’s Plant Replacement Value (Building - Replacement Cost) and is normally loaded into the USAF BUILDER database from USAF Real Property Data.

This is the case for the majority of Buildings in the USAF BUILDER database. However, for PRV’s not loaded in from the USAF real property data this value is calculated in BUILDER for the building based on the Building Area and cost per Unit of Measure for the Building Use (Category Code) as set in the Cost Book.

The report also includes several database Global Unique Identifier (GUID) columns that can be used to link other related data or as filters in Excel.

## AFMFH Report 01 Continued

### **Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Complex Name
4	Building Number
5	Building Name
6	RPUID
7	Category Code
8	Year Built
9	Building Area
10	UoM
11	Building Status
12	Scenario Name
13	Base Year
24	BCI 2018
25	BCI 2019
26	BCI 2020
27	BCI 2021
28	BCI 2022
29	BCI 2023
30	BCI 2024
31	BCI 2025
32	BCI 2026
33	BCI 2027

ORDER	COLUMN NAME
34	SYSTEM CI 2018 A10
35	SYSTEM CI 2018 A20
36	SYSTEM CI 2018 B10
37	SYSTEM CI 2018 B20
38	SYSTEM CI 2018 B30
39	SYSTEM CI 2018 C10
40	SYSTEM CI 2018 C20
41	SYSTEM CI 2018 C30
42	SYSTEM CI 2018 D10
43	SYSTEM CI 2018 D20
44	SYSTEM CI 2018 D30
45	SYSTEM CI 2018 D40
46	SYSTEM CI 2018 D50
47	SYSTEM CI 2018 E10
48	SYSTEM CI 2018 E20
49	SYSTEM CI 2018 G20
50	SYSTEM CI 2018 G30
51	SYSTEM CI 2018 G40
52	SYSTEM CI 2018 H50
53	Sum of Work Items
54	Sum of CRV
55	Building PRV
56	Building ID (GUID)
57	Site ID (GUID)

## AFMFH Report 02

### **Basic Description:**

Site level report specific to the Air Force Military Family Housing Organization only. Displays FACILITIES, SYSTEMS, SECTIONS, and INSPECTIONS for the AFMFH facilities.

### **If this report is tabular, then what are the rows?**

Each row is a unique SECTION/INSPECTION combo.

### **Is this report filtered? If so, how?**

No, this report shows all SECTIONS.  
Report can be executed at the SITE level only.

### **Additional Notes:**

Expected Rating is what BUILDER would have projected the Component-Section Condition Index to be based on the lifecycle and previous inspection ratings of the section. Inspection Rating is the rating that resulted from the inspection of the section as given by the assessor.

The report also includes several database Global Unique Identifier (GUID) columns that can be used to link other related data or as filters in Excel.

### **Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Complex Number
4	Complex Name
5	Building Number
6	Building Name
7	Building Area
8	UoM
9	Year Built
10	Floors
11	System

### **Report Columns, continued:**

ORDER	COLUMN NAME
12	Component
13	Material/Equipment Category
14	Component Subtype
15	Section Name
16	Section Quantity
17	UoM
18	CRV (Component Replacement Value)
19	Section Install Date
20	Install Date Source
21	Design Life (DL)
22	Section Age
23	Section RDL
24	RSL (years)
25	Painted?
26	Paint Year
27	Section CI
28	Section Paint CI
29	Inventory Section Comments
30	Inspection Date
31	Inspection Type
32	Inspection Source
33	Inspector
34	Expected Rating
35	Inspection Rating
36	Paint Rating
37	Number Inspection Images
38	Inspection Comments
39	Section Alternate ID
40	Section Alternate ID Source
41	Site ID (GUID)
42	Complex ID (GUID)
43	Building ID (GUID)
44	System ID (GUID)
45	Component ID (GUID)
46	Section ID (GUID)
47	Inspection ID (GUID)

## BUILDER Catalog

### **Basic Description:**

This report lists each BUILDER Catalog item by a unique BUILDER Component Material Category (CMC) identifier along with the replacement cost, paint cost and service life data. Each catalog item is a unique combination of System, Component, Material/Equipment Category and Component Subtype. The report links the Reference Settings including the Cost Book and Service Life Book data to the each catalog item at the level the report is executed.

### **If this report is tabular, then what are the rows?**

Each row is a catalog identified by a BUILDER CMC.

### **Is this report filtered? If so, how?**

No, this report shows all catalog items.

Report can be executed at an Organization or Site level.

### **Additional Notes:**

A CMC identifies a unique catalog item broken out by System, Component, Material/Equipment Category and Component Subtype. The report can be exported to Excel and is a dynamic report that returns the specific assembly costs and service life data from the Reference Settings specified in BUILDER at the hierarchy level the report is executed at. For example if the AFMFH cost book is set as the Cost book at the level the report is executed, the report would use the AFMFH cost data. Where the USAF cost book is set, the report would use the cost data from the USAF cost book and so on. The same holds true for any other custom Cost Books and custom Service Life Books that are defined and set in the Reference Settings at the level the report is ran. Cost Book data is US average for the year added to / updated in BUILDER and is adjusted for inflation and Area Cost Factor when used for specific component subtype assembly at a specific location.

### **Report Columns:**

ORDER	COLUMN NAME
1	CMC
2	System
3	Component
4	Material/Equipment Category
5	Component Subtype
6	UoM
7	Replace Unit Cost
8	Paint Unit Cost
9	Remove Unit Cost
10	Service Life

## BUILDER Catalog – With PMTL Crosswalk

### **Basic Description:**

This report lists each BUILDER Catalog item by a unique BUILDER Component Material Category (CMC) identifier cross-referenced with a Preventative Maintenance Task List (PMTL) item. Each catalog item is a unique combination of System, Component, Material/Equipment Category and Component Subtype.

### **If this report is tabular, then what are the rows?**

Each row is a unique BUILDER CMC having an Air Force PMTL.

Report can be executed at an Organization or Site level.

### **Is this report filtered? If so, how?**

No, this report shows only CMCs having an Air Force PMTL.

PMTL cross-reference data provided by USAF is used for reporting purposes only and not utilized within the BUILDER SMS.

Report can be executed at an Organization or Site level.

### **Additional Notes:**

A CMC identifies a unique catalog item broken out by System, Component, Material/Equipment Category and Component Subtype. In this particular report, the row also includes the corresponding Preventative Maintenance Task List that pertains to specific Component Subtype.

### **Report Columns:**

ORDER	COLUMN NAME
1	CMC
2	System
3	Component
4	Material/Equipment Category
5	Component Subtype
6	UoM
7	PMTL ID
8	Work Group
9	Level IV ID
10	Level IV Description

## Building Thumbnail Report

### **Basic Description:**

Building level report that displays a thumbnail-sized image for all images that have been loaded at the BUILDING, COMPONENT, SECTION, SECTION DETAIL or INSPECTION levels for the selected building.

### **If this report is tabular, then what are the rows?**

This report is not tabular.

Report can be executed only at the Building level.

### **Is this report filtered? If so, how?**

No, this report displays all images at these levels. It does not display PDF attachments, only JPG attachments.

### **Additional Notes:**

This report is useful to review pictures for IPL projects as well as for assessors to review prior to re-assessment.

### **Sample Page:**

The sample page displays a 'Facility Photo Inventory' report. It features a table with columns for Facility, System, Component, and Section. The report is organized into five rows, each representing a different level of detail for a facility. The first two rows are at the Facility level, and the last three rows are at the Section level. Each row includes a thumbnail image of the facility or section, along with a file name. The report is titled 'Facility Photo Inventory' and includes a 'Page 1 of 31' indicator at the bottom right.

Facility	System	Component	Section	Image
00450	ACFT MAINT BLDG - HANGAR 1			ACFT MAINT BLDG - HANGAR 1
00450	ACFT MAINT BLDG - HANGAR 1			ACFT MAINT BLDG - HANGAR 1
00450	B20 EXTERIOR ENCLOSURE	B2010 EXTERIOR WALLS	B201001 EXTERIOR CLOSURE SOUTH ELEVATION Metal Panel	B201001 EXTERIOR CLOSURE SOUTH ELEVATION Metal Panel
00450	B20 EXTERIOR ENCLOSURE	B2010 EXTERIOR WALLS	B201001 EXTERIOR CLOSURE EAST ELEVATION Metal Panel	B201001 EXTERIOR CLOSURE EAST ELEVATION Metal Panel
00450	B20 EXTERIOR ENCLOSURE	B2010 EXTERIOR WALLS	B201001 EXTERIOR CLOSURE EAST ELEVATION Brick Veneer w/CMU Backup	B201001 EXTERIOR CLOSURE EAST ELEVATION Brick Veneer w/CMU Backup

## Final OA – Real Property Inventory – With System Grid

### **Basic Description:**

A list of all BUILDINGS entered into BUILDER. This report is structured such that it reflects the parent and child ORGANIZATIONS in the USAF BUILDER inventory hierarchy up to four possible organization levels deep. The four ORGANIZATION columns include the top level SERVICE, MAJOR ORGANIZATION and MAJOR COMMAND, and two DIVISION levels. This report includes some basic BUILDER building-level data columns along with USAF Specific Real Property data elements such as the RPA Type and Sustainment Code from a crosswalk table provided by the USAF.

### **If this report is tabular, then what are the rows?**

Each row is a unique BUILDING.

### **Is this report filtered? If so, how?**

No, shows all BUILDINGS inventories within the Organizations or Sites the report is run for.

Report can be executed at the Organizations and Site levels.

At the top USAF Organization level this report is configured in the REPORT SERVER to run at night when network traffic is at a minimum and stored as a SNAP-SHOT. When ran from BUILDER, the last SNAP-SHOT is displayed.

### **Additional Information:**

This report includes a System crosstab grid displaying the 22 possible systems and a System CI where one exists.

RPA Type and Sustainment Code are USAF specific Real Property data elements linked to the report specifically for reporting purposes only. These USAF real property data elements are not maintained or used by BUILDER. They will only display for those buildings that have crosswalk data as supplied by the USAF. RPA Type is a code that reflects the type of Real Property i.e. Building, Linear Structure, Structure, etc. Sustainment Code is a code that reflects the organization responsible for the sustainment of a real property asset.

Building PRV is the building's Plant Replacement Value (Building - Replacement Cost) and is normally loaded into the USAF BUILDER database from USAF Real Property Data. This is the case for the majority of Buildings in the USAF BUILDER database. However, for PRV's not loaded in from the USAF real property data this value is calculated in BUILDER for the building based on the Building Area and cost per Unit of Measure for the Building Use (Category Code) as set in the Cost Book.



Sum of CRV is the sum of the calculated replacement cost for the Sections inventoried in the building.

In this report Deferred Maintenance is a parametric cost estimate of the total projected current year's work costs for the building calculated by algorithms within the report similar to what BUILDER does in Work Plan generation when generating a Work Plan for the current year. This number is NOT based on the current Work Plan for the building and does not affect the current Work Plan in BUILDER.

The report also generates a calculated Facility Condition Index (FCI) in real time without the need to generate work items in the Work Plan module. The report looks at every Component-Section's current condition being projected by BUILDER as the current Component Section Condition Index (CSCI) for the Section, compares it to its Standard and triggers a Work Item and calculates the repair cost estimate, and sums up all the repair costs across the building to calculate an FCI value as of the time of the report generation. The basic formula for FCI is  $FCI = 1 - (\text{Deferred Work Costs} / \text{PRV})$ .

The calculated FCI scores from this report will occasionally differ from the FCI value shown on the Building Summary screen. The FCI value on the Building Summary screen is calculated based on Work Items existing for the building in the Site's Work Plan that must have already been generated or manually entered into the Work Plan for the current fiscal year.

Final OA – Real Property Inventory – With System Grid Continued

**Report Columns:**

ORDER	COLUMN NAME
1	Service
2	Major Organization
3	Major Command
4	Division
5	Division
6	Site Number
7	Site Name
8	Complex Number
9	Complex Name
10	Building Number
11	Building Name
12	Building Area
13	UoM
14	RPUID
15	Category Code
16	Year Built
17	Sustainment Code
18	Building Status
19	RPA Type
20	Floors
21	Building PRV
22	MDI
23	BCI
24	Sum of CRV
25	Deferred Maintenance (Calculated by Report)
26	FCI (Calculated by Report)
27	Number of Systems in BUILDER

ORDER	COLUMN NAME
28	Number of Components in BUILDER
29	A10
30	A20
31	B10
32	B20
33	B30
34	C10
35	C20
36	C30
37	D10
38	D20
39	D30
40	D40
41	D50
42	E10
43	E20
44	F10
45	F20
46	G10
47	G20
48	G30
49	G40
50	G90

## Final OB – Real Property Inventory – No System Grid

### **Basic Description:**

A list of all BUILDINGS entered into BUILDER. This report is structured such that it reflects the parent and child ORGANIZATIONS in the USAF BUILDER inventory hierarchy up to four possible organization levels deep. The four ORGANIZATION columns include the top level SERVICE, MAJOR ORGANIZATION and MAJOR COMMAND, and two DIVISION levels. This report includes some basic BUILDER building-level data columns along with USAF Specific Real Property data elements such as the RPA Type and Sustainment Code from a crosswalk provided by the USAF.

### **If this report is tabular, then what are the rows?**

Each row is a unique BUILDING.

### **Is this report filtered? If so, how?**

No, shows all BUILDINGS inventories within the Organizations or Sites the report is run for.

Report can be executed at the Organizations and Site levels.

### **Additional Notes**

RPA Type and Sustainment Code are USAF specific Real Property data elements linked to the report specifically for reporting purposes only. These USAF real property data elements are not maintained or used by BUILDER. They will only display for those buildings that have crosswalk data as supplied by the USAF. RPA Type is a code that reflects the type of Real Property i.e. Building, Linear Structure, Structure, etc. Sustainment Code is a code that reflects the organization responsible for the sustainment real property asset.

Building PRV is the building's Plant Replacement Value (Building - Replacement Cost) and is normally loaded into the USAF BUILDER database from USAF Real Property Data. This is the case for the majority of Buildings in the USAF BUILDER database. However, for PRV's not loaded in from the USAF real property data this value is calculated in BUILDER for the building based on the Building Area and cost per Unit of Measure for the Building Use (Category Code) as set in the Cost Book.

Sum of CRV is the sum of the calculated replacement cost for the Sections inventoried in the building.

In this report Deferred Maintenance is a parametric cost estimate of the total projected current year's work costs for the building calculated by algorithms within the report similar to what BUILDER does in Work Plan generation when generating a Work Plan for the current year. This number is NOT based on the current Work Plan for the building and does not affect the current Work Plan in BUILDER.

Final OB – Real Property Inventory – No System Grid Continued

**Report Columns:**

ORDER	COLUMN NAME
1	Service
2	Major Organization
3	Major Command
4	Division
5	Division
6	Site Number
7	Site Name
8	Complex Number
9	Complex Name
10	Building Number
11	Building Name
12	Building Area
13	UoM
14	RPUID
15	Category Code
16	Year Built
17	Sustainment Code
18	Building Status
19	RPA Type
20	Floors
21	Building PRV
22	MDI
23	BCI
24	Sum of CRV
25	Deferred Maintenance
26	Number of Systems in BUILDER
27	Number of Components in BUILDER

## Final 01 – Building Summary Report

### **Basic Description:**

A list of BUILDINGS entered into BUILDER where at least one COMPONENT SECTION has been entered. Includes some basic building-level data columns.

### **If this report is tabular, then what are the rows?**

Each row is a unique BUILDING.

### **Is this report filtered? If so, how?**

Yes, this report only shows Buildings where at least one COMPONENT SECTION has been entered into BUILDER.

Report can be executed at the Organizations, Site, Complex and Building levels.

### **Additional Notes:**

Building PRV is the building's Plant Replacement Value (Building - Replacement Cost) and is normally loaded into the USAF BUILDER database from USAF Real Property Data. This is the case for the majority of Buildings in the USAF BUILDER database. However, for PRV's not loaded in from the USAF real property data this value is calculated in BUILDER for the building based on the Building Area and cost per Unit of Measure for the Building Use (Category Code) as set in the Cost Book.

Sum of CRV is the sum of the calculated replacement cost for the Sections inventoried in the building.

### **Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Complex Name
4	Building Number
5	Building Name
6	Building Area
7	UoM
8	RPUID
9	Category Code
10	Year Built
11	Construction Type
12	Floors
13	Building PRV
14	MDI
15	BCI
16	Sum of Work Items
17	Sum of CRV
18	Components (number of components)

# Final 02 – System Summary Report

**Basic Description:**

A list of SYSTEMS and their condition ratings sorted by BUILDING.

If this report is tabular, then what are the rows?

Each row is a unique SYSTEM broken out by BUILDING.

Report can be executed at the Organizations, Site, Complex and Building levels.

Is this report filtered? If so, how?

No, all SYSTEMS are displayed. A BUILDING will not appear in the report if it does not contain at least one SYSTEM.

**Additional Notes:**

The report also includes Global Unique Identifier (GUID) columns that can be used to link other related data or as a filter in Excel.

**Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Complex Number
4	Complex Name
5	Building Number
6	Building Name
7	Building Area
8	UoM
9	RPUID
10	Category Code
11	Year Built
12	Floors
13	BCI
14	System
15	System CI
16	System CRV
17	Building ID (GUID)
18	System ID (GUID)

# Final 03A – Component-Section Report

**Basic Description:**

A list of COMPONENT-SECTIONS defined within the BUILDER inventory along with their CI ratings sorted by BUILDING, SYSTEM, COMPONENT, and MATERIAL/EQUIPMENT CATEGORY.

**If this report is tabular, then what are the rows?**

Each row is a unique SECTION broken out by Building.

Report can be executed at the Organizations, Site, Complex and Building levels.

**Is this report filtered? If so, how?**

No, all SECTIONS are displayed. A BUILDING will not appear in the report if it does not contain at least one SECTION.

**Additional Notes:**

The report also includes a Global Unique Identifier (GUID) column that can be used to link other related data or as a filter in Excel.

**Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Complex Name
4	Building Number
5	Building Name
6	Building Area
7	UoM
8	RPUID
9	MDI
10	System
11	Component
12	Material/Equipment Category
13	Component Subtype
14	Section Name
15	Section Install Date
16	Install Date Source
17	Quantity
18	UoM
19	CRV
20	Section CI
21	RSL (years)
22	Section Comments
23	Section ID (GUID)

## Final 03B – IHA (Installation Health Assessment) Component-Section Report

### **Basic Description:**

A list of COMPONENT-SECTIONS defined within the BUILDER inventory along with their CI ratings sorted by BUILDING, SYSTEM, COMPONENT, and MATERIAL/EQUIPMENT CATEGORY.

### **If this report is tabular, then what are the rows?**

Each row is a unique SECTION broken out by Building.

Report can be executed at the Organization, and Site levels.

### **Is this report filtered? If so, how?**

No, all SECTIONS are displayed. A BUILDING will not appear in the report if it does not contain at least one SECTION.

### **Additional Notes:**

The Final 03B – IHA Component-Section Report is specifically designed and used for data retrieval from BUILDER for the USAF Installation Health Assessment (IHA) efforts. The report contains additional data columns not included in the Final 03A report that are specific for IHA use.

The report also includes a Global Unique Identifier (GUID) column that can be used to link other related data or as a filter in Excel.

### **Report Columns:**

ORDER	COLUMN NAME
1	Organization Number
2	Organization Name
3	Complex
4	Building Number
5	Building Name
6	Building Area
7	UoM
8	Inventory Control Code
9	RPUID
10	MDI
11	System
12	Component
13	Material/Equipment Category
14	Component Subtype
15	Section Name
16	Section Install Date
17	CRV
18	Section CI
19	RSL (Years)
20	Building ID (GUID)
21	Sec A
22	Sec Alpha
23	Sec Beta
24	Expected Service Life
25	Max RSL (Standard)
26	Min CI (Standard)



## Final 04 – Equipment Details Report

### **Basic Description:**

A list of SECTION DETAILS that have been entered under each SECTION sorted by BUILDING, SYSTEM, COMPONENT, and MATERIAL/EQUIPMENT CATEGORY.

### **If this report is tabular, then what are the rows?**

Each row is a unique SECTION DETAIL record.

### **Is this report filtered? If so, how?**

No, all SECTION DETAILS are displayed. A SECTION will not appear in the report if it does not have any SECTION DETAILS. A BUILDING will not appear if it does not contain any SECTION DETAIL records.

Report can be executed at the Organizations, Site, Complex and Building levels.

### **Additional Notes:**

CRV is the calculated replacement cost for the section based on the section's quantity and cost per Unit of Measure as specified in the Cost Book for the MATERIAL/EQUIPMENT CATEGORY and Component Subtype combination.

### **Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Complex Name
4	Building Number
5	Building Name
6	RPUID
7	System
8	Component
9	Material/Equipment Category
10	Component Subtype
11	Section Name
12	Section Install Date
13	Install Date Source
14	Quantity
15	UoM
16	CRV
17	Section CI
18	RSL (years)
19	Section ID
20	ID Number
21	Equipment Type
22	Equipment Make
23	Model
24	Serial Number
25	Capacity
26	Manufacturer
27	Date Manufactured
28	Date Installed
29	Control Type Make
30	Warranty Date #1
31	Warranty Company #1
32	Location
33	Comment
34	Warranty Date #2
35	Warranty Company #2

**Final 05 – Inspection Summary Report**

**Basic Description:**

A list of inspected SECTIONS sorted by SITE NAME, COMPLEX, BUILDING, SYSTEM, COMPONENT, and MATERIAL/EQUIPMENT CATEGORY and Component Subtype. Information is included about the LATEST INSPECTION on that SECTION.

**If this report is tabular, then what are the rows?**

Each row is a unique SECTION matched to its LATEST INSPECTION record.

**Is this report filtered? If so, how?**

Yes, this report only shows the LATEST (MOST RECENT) INSPECTION against the listed SECTION.

Report can be executed at the Organizations, Site, Complex and Building levels.

**Additional Notes:**

When exported to an Excel spreadsheet the Sections with out of date assessment inspections (over five years old) can be determined, by filtering by date leaving the sections not having or which will not have current inspections soon. The Builder Number information can be copied / pasted in a new spreadsheet and filtered for duplicates leaving facilities needing re-assessment soon or overdue.

**Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Complex Name
4	Building Number
5	Building Name
6	RPUID
7	Component
8	Material/Equipment Category
9	Component Subtype
10	Section Name
11	Quantity
12	UoM
13	Section Install Date
14	Install Date Source
15	Inspection Date
16	Inspection Type
17	Inspection Rating
18	Inspector
19	Inspection Comments
20	Number of Inspection Images

## Final 06 – Distress Survey Details Report

### **Basic Description:**

A list of Distress Survey Inspection Records that were inspected using a DISTRESS SURVEY INSPECTION sorted by SITE NAME, COMPLEX, BUILDING, SYSTEM, COMPONENT, MATERIAL/EQUIPMENT CATEGORY, COMPONENT SUBTYPE, and SECTION.

### **If this report is tabular, then what are the rows?**

Each row is a unique DISTRESS SURVEY INSPECTION Record.

### **Is this report filtered? If so, how?**

Yes, this report only shows INSPECTION records for which a DISTRESS SURVEY INSPECTION was performed. Only shows BUILDINGS for which a DISTRESS SURVEY INSPECTION was performed.

Report can be executed at the Organizations, Site, Complex and Building levels.

### **Additional Notes:**

Sub-Component is a “Sub-Component” of the Section. For Example, a section of D3020 HEAT GENERATING SYSTEMS – D302001 BOILERS Gas Hot Water would have Sub-Components consisting of a Burner Assembly, Controls, Firebox/Fire Tubes, Fuel System, etc.

Critical indicates if the inspector checked the Critical checkbox specifying that the distress on the subcomponent is critical. Marking this checkbox when adding a distress to a Section’s sub-component during a Distress Survey will cause a work item to be generated for this Section as a “Must Do” work item when a Work Plan is generated in the Work Planning Module for the Building.

ESC indicates if the inspector checked the Emergency Service Call (ESC) Checkbox specifying that the distress on the subcomponent requires an ESC.

Distress Type is the type of distress present on the sub-component.

Severity is the severity of the distress present on the sub-component. (High, Medium, Low).

Distress Quantity is the number or measure of the distress on the sub-Component.

Sub-Component Quantity is the number or measure of the sub-component present for the Section.

Density is a percentage range selected for the distress on the sub-component. If an inspector has entered the Distress Quantity the density range will be automatically calculated and selected. If the inspector enters a Density and selects a Density BUILDER will use the Density in the Condition Index calculations presuming a count or a measure of the distress is more accurate than the Density value which is a percentage range.

Final 06 – Distress Survey Details Report Continued

**Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Complex Name
4	Building Number
5	Building Name
6	RPUID
7	Component
8	Material/Equipment Category
9	Component Subtype
10	Section Name
11	Quantity
12	UoM
13	Inspection Date
14	Inspection Rating
15	Inspector
16	Inspection Comments
17	Sub-Component
18	Critical?
19	ESC?
20	Distress Type
21	Severity
22	Distress Quantity
23	Sub-Component Quantity
24	Density

## Final 07 – Work Action Summary Report

### **Basic Description:**

A list of BUILDINGS, broken out by SYSTEM, and a sum of ALL WORK ITEMS across all FYs in a WORK PLAN generated or manually entered for that SYSTEM. Only WORK ITEMS that currently exist in the SITES', COMPLEXS' or BUILDINGS' WORK PLANS are included in the report. For more on generating Work Plans see the "Work Planning Overview" in the BUILDER Help.

### **If this report is tabular, then what are the rows?**

Each row is a unique SYSTEM (broken out by BUILDING) with a rollup cost of all of the WORK ITEMS currently in the WORK PLAN against that SYSTEM.

### **Is this report filtered? If so, how?**

No, this report shows all SYSTEMS with WORK ITEMS. A BUILDING will not appear when it has no SYSTEM where at least one WORK ITEM is in the WORK PLAN.

Report can be executed at the Organizations, Site, Complex and Building levels.

### **Additional Notes:**

This report is run against all WORK ITEMS that have previously been generated or manually added to a WORK PLAN within the WORK PLAN Module of BUILDER for SITES, COMPLEXS or BUILDINGS. If no WORK ITEMS exist in the WORK PLAN for a BUILDING then that BUILDING will not appear in the report. If no WORK ITEMS exist in the WORK PLAN under a SYSTEM then that SYSTEM will not be in the report under the BUILDING. If a multi-year WORK PLAN exists for a SITE, COMPLEX or BUILDING, the report will sum all of the work items across all FYs in the multi-year work plan.

Note: A WORK PLAN must already exist in the WORK PLAN Module for the SITES, COMPLEXS and BUILDINGS the report is being executed against for this report to display any data. The report itself DOES NOT generate the WORK ITEMS. In addition, a WORK PLAN is something that must be maintained in BUILDER if it is being utilized or reported on.

Number of Work Items is the number of work items in the work plan for the System.

Estimated Total Costs of Work Items is the total costs for the Work Items in the Work Plan for the System.

Sum of CRV is the sum of the calculated Component Replacement Value for the Sections inventoried for the System.

### **Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Complex Name
4	Building Number
5	Building Name
6	RPUID
7	Category Code
8	System
9	Number of Work Items
10	Estimated Total Costs of Work Items
11	Sum of CRV
12	System CI
13	System ID (GUID)

The report also includes a Global Unique Identifier (GUID) column that can be used to link other related data or as a filter in Excel.

## Final 08 – Work Action Details Report

### **Basic Description:**

A detail listing of ALL WORK ITEMS, across all FYs in a WORK PLAN, previously generated or manually entered for each BUILDING. Only WORK ITEMS that currently exist in the SITES', COMPLEXES' or BUILDINGS' WORK PLANS are included in the report. For more on generating WORK PLANS see the "Work Planning Overview" in the BUILDER Help.

### **If this report is tabular, then what are the rows?**

Each row is a unique WORK ITEM.

### **Is this report filtered? If so, how?**

No, this report shows all WORK ITEMS. A BUILDING will not appear if it does not have at least one WORK ITEM in the WORK PLAN.

Report can be executed at the Organizations, Site, Complex and Building levels.

### **Additional Notes:**

This report is run against all WORK ITEMS that have been previously generated or manually added to a WORK PLAN within the WORK PLAN Module of BUILDER for SITES, COMPLEXS or BUILDINGS. If no WORK ITEMS exist in the WORK PLAN for a BUILDING then that BUILDING will not appear in the report. If a Multi-Year WORK PLAN exists for a SITE, COMPLEX, or BUILDING, the report will display all of the WORK ITEMS across all FYs in the Multi-Year WORK PLAN.

If exported to an Excel spreadsheet, the WORK ITEMS can be filtered by Fiscal Year or any of the other data elements to obtain the desired view of the WORK ITEMS from the WORK PLANS in the report.

A WORK PLAN must already exist in the WORK PLAN Module for the SITES, COMPLEXS and BUILDINGS the report is being executed against for this report to display any data. The report itself DOES NOT generate the WORK ITEMS. A WORK PLAN is something that must be maintained in BUILDER if it is to be used or reported on.

The Section CI is the current Condition Index for the section as calculated by BUILDER at the time of the report generation. The Projected CI for FY is the Condition Index that was projected for the Section when the Work Item was generated in the Work Plan or by a Scenario.

The report includes several database Global Unique Identifier (GUID) columns that can be used to link other related data or as filters in Excel.

This report includes some basic BUILDER building-level data columns along with USAF Specific Real Property data elements Sustainment Code from a crosswalk provided by the USAF. Sustainment Code is a USAF specific Real Property data element linked to the report specifically for reporting purposes only.

## Final 08 – Work Action Details Report Continued

Such USAF real property data elements are not maintained or used by BUILDER. They will only display for those buildings that have crosswalk data as supplied by the USAF. Sustainment Code is a code that reflects the organization responsible for the sustainment of a real property asset.

The System Importance Factor (SIF) included in this report is a point value that is set by USAF as a measure within the “USAF” Prioritization Scheme. A Prioritization Scheme is used within the Work Planning Module and in Scenarios to rank the generated work items with a prioritization score. The SIF in the “USAF” Prioritization Scheme is one of several measures under the Objectives set in the scheme. For more on Prioritization Scheme see the BUILDER Help.

### **Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Complex Name
4	Building Number
5	Building Name
6	RPUID
7	Category Code
8	MDI
9	SIF (System Importance Factor)
10	Sustainment Code
11	System
12	Component
13	Material/Equipment Category
14	Component Subtype
15	Section Name
16	Section CI
17	Projected CI for FY
18	Quantity
19	UoM
20	Work Item Description
21	Estimated Cost
22	Fiscal Year
23	Completion Date
24	Actual Cost
25	Work Request Number

ORDER	COLUMN NAME
26	Building ID (GUID)
27	System ID (GUID)
28	Component ID (GUID)
29	Section ID (GUID)
30	Work Item ID (GUID)



## Final 09 – Building System Quick View Report

### **Basic Description:**

A cross-tab report (pivot table); for each BUILDING. This report displays the BCI, and SYSTEM CI for each of the 22 Systems.

### **If this report is tabular, then what are the rows?**

Each row is a unique BUILDING.

### **Is this report filtered? If so, how?**

Yes, this report only shows BUILDINGS where at least one SYSTEM has been entered into BUILDER and it only includes BUILDINGS where the BUILDING STATUS is not equal to either “Demolished” or “Transferred”.

Report can be executed at the Organizations, Site, Complex and Building levels.

### **Additional Notes:**

Note: White space indicates that a system is determined to be currently present but does not have any SECTIONS inventoried. Grey (N/A) indicates that a system is either not required to be inventoried or is not present in the building and has been deleted from the building.

The Building Condition Index (BCI) is a condition index measure for the building calculated by BUILDER. The BCI is a function of the individual System Condition Indices (SCI) which are aggregated up from the Component-Section Condition Indices (CSCI) that are aggregated up from the respective Building Component Condition Indices (BCCI), which are aggregated up from the individual Component-Section Condition Indices (CSCI) of the individual Sections in the Building’s inventory.

Final 09 – Building System Quick View Report Continued

**Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Complex Name
4	Building Number
5	Building Name
6	Building Area
7	UoM
8	RPUID
9	Category Code
10	Year Built
11	Sustainment Code
12	Building Status
13	RPA Type
14	Floors
15	Building PRV
16	MDI
17	BCI
19	A10
20	A20

ORDER	COLUMN NAME
21	B10
22	B20
23	B30
24	C10
25	C20
26	C30
27	D10
28	D20
29	D30
30	D40
31	D50
32	E10
33	E20
34	F10
35	F20
36	G10
37	G20
38	G30
39	G40
40	G90

**Final 10 – Building System Work Item Rollup**

**Basic Description:**

A cross-tab report (pivot table); for each Building this report displays the sum of the WORK ITEMS in a WORK PLAN, previously generated or manually entered for each BUILDING for the current fiscal year for each of these seven systems: B20, B30, C10, D20, D30, D40, D50. Only WORK ITEMS that currently exist in the SITES', COMPLEXS' or BUILDINGS' WORK PLANS are included in the report. The report also shows the current BCI and SCI for each of the seven mandatory systems. For more on work plans see the "Work Planning Overview" in the BUILDER Help.

**If this report is tabular, then what are the rows?**

Each row is a unique BUILDING.

Report can be executed at the Organizations and Site levels.

**Is this report filtered? If so, how?**

Yes, this report only shows Buildings where at least one SYSTEM has been entered into BUILDER.

**Additional Notes:**

The Work Total columns sum the WORK ITEMS from the current WORK PLAN against the CURRENT FISCAL YEAR only.

**Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Complex Name
4	Building Number
5	Building Name
6	Building Area
7	UoM
8	RPUID
9	Category Code
10	Year Built
11	Floors
12	BCI
13	B20
14	B20 Work Total
15	B30
16	B30 Work Total
17	C10
18	C10 Work Total
19	D20
20	D20 Work Total
21	D30
22	D30 Work Total
23	D40
24	D40 Work Total
25	D50
26	D50 Work Total

Note: A WORK PLAN must already exist in the WORK PLAN Module for the BUILDINGS under the ORG or SITE the report is being executed against for this report to display any WORK ITEM related data. The report itself DOES NOT generate the WORK ITEMS. In addition, a WORK PLAN is something that must be maintained in BUILDER if it is being utilized or reported on.

## Flatfile 01 – Component-Section Summary

### **Basic Description:**

A Site or Complex "Data Dump" report showing all SECTIONS from the inventory and pertinent values.

### **If this report is tabular, then what are the rows?**

Each row is a unique SECTION.

### **Is this report filtered? If so, how?**

No, this report shows all SECTIONS.

Report can be executed at the Site and Complex levels.

### **Additional Notes:**

Report is designed specifically as a "Flat File" as a data export to Excel.

The report includes several database Global Unique Identifier (GUID) columns that can be used to link other related data or as filters in Excel.

System CRV is the sum of the calculated Component Replacement Value for the Sections inventoried for the specified System.

CRV is the calculated replacement cost for the section based on the section's quantity and cost per Unit of Measure as specified in the Cost Book for the MATERIAL/EQUIPMENT CATEGORY and Component Subtype combination.

### **Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Complex Name
4	Building Number
5	Building Name
6	Building Area
7	RPUID
8	Category Code
9	Floors
10	Year Built
11	Building PRV
12	MDI
13	BCI
14	Building Comments
15	System Name
16	System CI
17	System CRV
18	Component Name
19	Material/Equipment Category
20	Component Subtype
21	Section Name
22	Section Install Date
23	Section Install Date Source
24	Section Quantity
25	UoM
26	CRV
27	Section CI
28	RSL
29	Inventory Section Comments
30	Building ID (GUID)
31	System ID (GUID)
32	Section ID (GUID)

## Flatfile 02 – Equipment Details

### **Basic Description:**

A Site or Complex "Data Dump" report showing all SECTION DETAILS and pertinent values.

### **If this report is tabular, then what are the rows?**

Each row is a unique SECTION DETAIL

### **Is this report filtered? If so, how?**

No, this report shows all SECTION DETAILS.

Report can be executed at the Site and Complex levels.

### **Additional Notes:**

Report is designed specifically as a "Flat File" as a data export to Excel.

The report includes several database Global Unique Identifier (GUID) columns that can be used to link other related data or as filters in Excel.

### **Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Building Number
4	Building Name
5	Equipment ID
6	ID Number
7	Equipment Type
8	Equipment Make
9	Model
10	Serial Number
11	Capacity
12	Manufacturer
13	Date Manufactured
14	Date Installed
15	Control Type Make
16	Warranty Date
17	Warranty Company
18	Location
19	Warranty Date2
20	Warranty Company2
21	Comments
22	Building ID (GUID)
23	System ID (GUID)
24	Section ID (GUID)

**Flatfile 03 – Inspection Detail**

**Basic Description:**

A Site or Complex "Data Dump" report showing all INSPECTIONS and pertinent values.

**If this report is tabular, then what are the rows?**

Each row is a unique INSPECTION record.

**Is this report filtered? If so, how?**

No, this report shows all INSPECTIONS.

Report can be executed at the Site and Complex levels.

**Additional Notes:**

Report is designed specifically as a "Flat File" as a data export to Excel.

The report includes several database Global Unique Identifier (GUID) columns that can be used to link other related data or as filters in Excel.

**Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Building Number
4	Building Name
5	Inspection ID (GUID)
6	Inspection Date
7	Inspection Type
8	Inspection Rating
9	Inspector
10	Inspection Comments
11	Building ID (GUID)
12	Section ID (GUID)

## Flatfile 04 – Distress Survey Details

### **Basic Description:**

A Site or Complex "Data Dump" report showing all DISTRESS SURVEY INSPECTIONS and pertinent values.

### **If this report is tabular, then what are the rows?**

Each row is a unique DISTRESS SURVEY INSPECTION record.

Report can be executed at the Site and Complex levels.

### **Is this report filtered? If so, how?**

No, this report shows all DISTRESS SURVEY INSPECTIONS.

### **Additional Notes:**

Report is designed specifically as a "Flat File" as a data export to Excel.

The report includes several database Global Unique Identifier (GUID) columns that can be used to link other related data or as filters in Excel.

### **Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Building Number
4	Building Name
5	Distress ID
6	Subcomponent
7	Critical?
8	ESC?
9	Distress
10	Severity
11	Subcomponent Quantity
12	Distress Quantity
13	Density
14	Section ID (GUID)
15	Inspection ID (GUID)
16	Building ID (GUID)

## Flatfile 05 – Work Action Detail

### **Basic Description:**

A Site or Complex "Data Dump" report showing ALL WORK ITEMS and pertinent values, across all FYs in a WORK PLAN, generated or manually entered. Only WORK ITEMS that currently exist in the SITES', COMPLEXES' or BUILDINGS' WORK PLANS are included in the report. For more on generating work plans see the "Work Planning Overview" in the BUILDER Help.

### **If this report is tabular, then what are the rows?**

Each row is a unique WORK ITEM record.

### **Is this report filtered? If so, how?**

No, this report shows all WORK ITEMS.

Report can be executed at the Site and Complex levels.

### **Additional Notes:**

Report is designed specifically as a "Flat File" as a data export to Excel.

The report includes several database Global Unique Identifier (GUID) columns that can be used to link other related data or as filters in Excel.

A WORK PLAN must already exist in the WORK PLAN Module for the BUILDINGS under the SITE or COMPLEX the report is being executed against for this report to display any WORK ITEM related data. The report itself DOES NOT generate the WORK ITEMS. In addition, a WORK PLAN is something that must be maintained in BUILDER if it is being utilized or reported on.

If exported to an Excel spreadsheet the WORK ITEMS can be filtered by Fiscal Year or any of the other data elements to obtain the desired View of the WORK ITEMS from the WORK PLANS in the report.



Flatfile 05 – Work Action Detail Continued

**Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Building Number
4	Building Name
5	Work Item ID
6	Work Item Description
7	Estimated Cost
8	Fiscal Year
9	Completion Date
10	Actual Cost
11	Work Request Number
12	Building ID
13	System ID
14	Component ID
15	Section ID

## Inspection Locks Report

### **Basic Description:**

A Site or Complex report giving a list of SYSTEMS and the individual users who have RECORD-LOCKS in effect on that system.

### **If this report is tabular, then what are the rows?**

Each row is a unique SYSTEM broken out by BUILDING.

Report can be executed at the Site and Complex levels.

### **Is this report filtered? If so, how?**

Yes, this report only shows systems for which a user has checked out the SYSTEM and an INSPECTION LOCK-RECORD is in place for that SYSTEM.

### **Additional Notes:**

Provides a Data Manager information on who has developed BRED files for export and have failed to clear the locks.

### **Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Complex Name
4	Building Number
5	Building Name
6	Building Area
7	UoM
8	RPUID
9	Category Code
10	Year Built
11	Floors
12	System
13	Checked Out By
14	Building ID
15	System ID

## Inspection Report with Images

### **Basic Description:**

This report generates a printable report. Starting with the chosen building, this report shows each SECTION and any associated images loaded at the SECTION level. Then, the report displays all INSPECTIONS associated with that SECTION and all images associated with each INSPECTION.

### **If this report is tabular, then what are the rows?**

This report is not tabular.

### **Is this report filtered? If so, how?**

No, this report displays all sections that exist for this building and all inspections that are associated with each section.

Report can be executed at the Site, Complex and Building levels.

### **Sample Page:**



### Inspection Report with Images

Report Generated From BUILDER SMS on: 4/4/2016 10:48:02 AM

This report displays Sections and Inspections for chosen Facility and any associated Section and Inspection Images if they exist.

SECTION		
Facility	Q0450	CALIBRATION LAB INSTRUMENT-CALIBRATION SHOP
System	B20 EXTERIOR ENCLOSURE	
Component	B2010 EXTERIOR WALLS	
Section	B201001 EXTERIOR CLOSURE	N/A Concrete Block

05487865-6015-4051-823F-05207614-0395

#### INSPECTION DETAILS

INPS_DATA_ID	a4d1238a-e392-46d3-937d-6fe69956464d	
Type / Date	Direct	11/9/2015
Inspector / RSL		23
CSCI	70	Efflorescence present interior and exterior sides of wall at Addition



DKGV\_B0450\_B20\_A\_0010



67.5°F FLIR  
60°F 71°F  
DKGV\_B0450\_BE\_IR\_0001



66.4°F FLIR  
62°F 73°F  
DKGV\_B0450\_BE\_IR\_0002



DKGV\_B0450\_C10\_G\_0001



DKGV\_B0450\_C10\_G\_0002

## PM 01 – PMOSS Report

### **Basic Description:**

Preventive Maintenance One-Stop- Shop (PMOSS) - a comprehensive report that matches all SECTION DETAILS with its Preventive Maintenance Task List.

### **If this report is tabular, then what are the rows?**

Each row is a unique SECTION DETAIL.

### **Is this report filtered? If so, how?**

No, this report shows all SECTION DETAILS.

Report can be executed at the Organization and Site levels.

### **Additional Notes:**

This report is used to populate initial asset data in TRIRIGA.

Preventative Maintenance data, has been added to the USAF BUILDER database and linked to the PM 01 Custom Report to meet the USAF's reporting needs. These data elements are not utilized by the BUILDER SMS application nor maintained through the BUILDER interface but have been linked for reporting purposes only through the Custom Reports. These data tables are periodically updated in the BUILDER database with updates supplied by USAF.

## PM 01 – PMOSS Continued

### Report Columns:

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Complex Number
4	Complex Name
5	Building Number
6	Building Name
7	Building Area
8	RPUID
9	Category Code
10	Year Built
11	Building Status
12	RPA Type
13	Floors
14	MDI
15	System
16	Component
17	Material/Equipment Category
18	Component Subtype
19	Section Name
20	CRV
21	Section Quantity
22	Section UoM
23	Section Install Date
24	Install Date Source
25	Design Life (DL)
26	Section Age
27	Section CI
28	Section Paint CI
29	Section Comments
30	Audit Date
31	Action
32	User Name
33	ID Number
34	Model
35	Serial Number

ORDER	COLUMN NAME
36	Capacity
37	Manufacturer
38	Date Manufactured
39	Date Installed
40	Control Type Make
41	Warranty Date
42	Warranty Company
43	Warranty Date 2
44	Warranty Company 2
45	Location
46	Comment
47	Number of Detail Images
48	Site ID
49	Complex ID
50	Building ID
51	System ID
52	Component ID
53	Section ID
54	Section Detail ID
55	System Impact Factor (SIF)
56	Last Inspection Date
57	CMC
58	Work Group
59	RS Means Level IV ID
60	Level IV Description
61	PMTL
62	PMTL Description
63	Daily
64	Weekly
65	Semi-Monthly
66	Monthly
67	Bi-Monthly
68	Quarterly
69	Semi-Annually
70	Annually

ORDER	COLUMN NAME
71	20-Month
72	21-Month
73	2-Year
74	3-Year
75	40-Month
76	4-Year
77	5-Year
78	6-Year
79	10-Year
80	Total **Annualized** Hours
81	Remarks
82	Recommended Crew Size (Safety)

## PMTL 01 – Preventive Maintenance Task List – Full Listing

### **Basic Description:**

A listing of all of the Preventive Maintenance Task List records included in the Crosswalk table supplied by USAF and utilized in the PM 01 and PM 02 Custom Reports.

### **If this report is tabular, then what are the rows?**

Each row is a unique PMTL record.

Report can be executed at the Organization and Site levels.

### **Is this report filtered? If so, how?**

No, this report shows all PMTL records.

### **Additional Notes:**

The PMTL 01 report Preventative Maintenance data, has been added to the USAF BUILDER database and linked to the PMTL 01 Custom Report to meet the USAF’s reporting needs. These data elements are not utilized by the BUILDER SMS application nor maintained through the BUILDER interface but have been linked for reporting purposes only through the Custom Reports. These data tables are periodically updated in the BUILDER database with updates supplied by USAF.

### **Report Columns:**

ORDER	COLUMN NAME
1	PMTL ID
2	PMTL ID (No Spaces)
3	PMTL Description
4	Daily
5	Weekly
6	Semi-Monthly
7	Monthly
8	Bi-Monthly
9	Quarterly
10	Semi-Annually
11	Annually
12	20-Month
13	21-Month
14	2-Year
15	3-Year
16	40-Month
17	4-Year
18	5-Year
19	6-Year
20	10-Year
21	Total <b>**Annualized**</b> Hours
22	Remarks
23	Recommended Crew Size (Safety)

QA 03 – Naming Discrepancies Report

**Basic Description:**

A list of SECTION NAMES that are used infrequently (fewer than 5 times) in the database.

**If this report is tabular, then what are the rows?**

Each row is a unique SECTION NAME.

Report can be executed at the Site and Complex levels.

**Is this report filtered? If so, how?**

Yes, this report shows SECTION NAMES where the Instance Count of the SECTION NAME is less than 5.

**Additional Notes:**

**Report Columns:**

ORDER	COLUMN NAME
1	Section Name
2	Instance Count
3	Building Number
4	Building Name
5	System
6	Component
7	Material/Equipment Category
8	Component Subtype
9	English Section Quantity
10	English Section UoM
11	Metric Section Quantity
12	Metric Section UoM
13	Inventory Section Comments

## QA 04 – Suspect Section Inventory Report

### **Basic Description:**

A list of SECTIONS for which the section quantity or age is suspect or inconsistent with building quantities or age.

### **If this report is tabular, then what are the rows?**

Each row is a unique SECTION.

Report can be executed at the Site and Complex levels.

### **Is this report filtered? If so, how?**

Yes, this report shows sections where any of these cases is true:

- (1) Section Quantity > 200 EACH
- (2) Section Quantity is greater than Building Quantity
- (3) Section Age is greater than Building Age.

### **Additional Notes:**

Potentially exposes transcription errors. When assessor puts in quantities in square footage versus quantities to be recorded as each, components with greater area than the square footage of the facility, or possibly excessive quantities. Also, exposes install dates before the YEAR BUILT.

### **Report Columns:**

ORDER	COLUMN NAME
1	Complex Name
2	Building Number
3	Building Name
4	Building Area
5	UoM
6	Year Built
7	System
8	Component
9	Section Name
10	Material/Equipment Category
11	Component Subtype
12	Section Install Date
13	English Quantity
14	English UoM
15	Metric Quantity
16	Metric UoM
17	Inventory Section Comments



## QA 07 – Sections without Inspections (Age-Based Conditions) Report

### **Basic Description:**

A list of SECTIONS for which there are no Inspections entered into BUILDER and are, therefore, Age-Based condition rated.

### **If this report is tabular, then what are the rows?**

Each row is a unique SECTION.

Report can be executed at the Site and Complex levels.

### **Is this report filtered? If so, how?**

Yes, this report shows only SECTIONS having no INSPECTION entry.

### **Additional Notes:**

### **Report Columns:**

ORDER	COLUMN NAME
1	Complex Name
2	Building Number
3	Building Name
4	System
5	Component
6	Section Name
7	Material/Equipment Category
8	Component Subtype
9	Section Install Date
10	English Quantity
11	English UoM
12	Metric Quantity
13	Metric UoM
14	Inventory Section Comments

**QA 10 – Missing Inspection Comments**

**Basic Description:**

A list of inspections where a rating of Amber+ or less was given, but no Inspection Comment supporting the rating was provided.

**If this report is tabular, then what are the rows?**

Each row is a unique INSPECTION.

Report can be executed at the Site and Complex levels.

**Is this report filtered? If so, how?**

Yes, this report shows inspections where the rating was either Amber+ or less and there are no Inspection Comments providing a reason for the low rating.

**Additional Notes:**

Provides a list of SECTIONS missing Inspection Comments.

**Report Columns:**

ORDER	COLUMN NAME
1	Inspector
2	Complex Name
3	Building Number
4	Building Name
5	System
6	Component
7	Section Name
8	Material/Equipment Category
9	Component Subtype
10	Section Install Date
11	English Quantity
12	English UoM
13	Metric Quantity
14	Metric UoM
15	Inspection Rating
16	Inspection Date
17	Inspection Comments

## QA 11 – Section Condition Analysis Exception

### **Basic Description:**

A list of SECTIONS for which the variance between Age and Design Life exceeds plus or minus 20%.

### **If this report is tabular, then what are the rows?**

Each row is a unique SECTION.

Report can be executed at the Site and Complex levels.

### **Is this report filtered? If so, how?**

Yes, this report shows sections where at least one of these cases is true:

- (1) The Variance  $((RSL + Age)/Design\ Life) < 0.8$
- (2) The Variance  $((RSL + Age)/Design\ Life) > 1.4$

### **Additional Notes:**

The Initial Condition or Condition Index upon installation will normally be 100 as of Section Install Date. Exceptions to this may indicate a data import error or an Initial Inspection Condition Index other than 100 imported from a legacy data source.

Estimated Service Life (ESL) is a calculated service life for the individual Section based on the Section's current estimated Component-Section Condition Index (CSCI) and the future projected CSCI trend utilizing the Section's inspection information, observed deterioration rates and expected service.

This report MAY indicate either an inspection error, component quality other than the norm, or environmental conditions other than the norm and may not be an issue but may need validation. Variance in Green indicates a component that based on assessment is lasting longer than the Design Life. Variance in Red indicates a component that based on the last assessment will not last Design Life.

### **Report Columns:**

ORDER	COLUMN NAME
1	Complex Name
2	Building Number
3	Building Name
4	System
5	Component
6	Section Name
7	Material/Equipment Category
8	Component Subtype
9	Section Install Date
10	Initial Condition
11	Age
12	Design Life (DL)
13	Estimated Service Life (ESL)
14	Variance (ASL / DL)
15	Inspection Comments

## QA 12A – Inspection Matrix – System Inspection Summary by Inspector

### **Basic Description:**

A cross-tab report (pivot table); for each System a count of Green, Amber, Red scores by Inspector.

### **If this report is tabular, then what are the rows?**

Each row is a unique SYSTEM broken down by INSPECTOR.

Report can be executed at the Site and Complex levels.

### **Is this report filtered? If so, how?**

No.

### **Additional Notes:**

Analysis of Inspector scores can reveal any inspector biases or inconsistencies.

### **Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Complex Number
4	Complex Name
5	Inspector
6	Total Number of Inspections
7	Number of Green Scores
8	Number of Amber Scores
9	Number of Red Scores
10	% of Green Scores
11	% of Amber Scores
12	% of Red Scores

## QA 12C – Inspection Matrix – Inspector Inspection Summary by System

### **Basic Description:**

A cross-tab report (pivot table); for each Inspector a count of Green, Amber, Red scores by system.

### **If this report is tabular, then what are the rows?**

Each row is a unique INSPECTOR broken down by SYSTEM.

Report can be executed at the Site and Complex levels.

### **Is this report filtered? If so, how?**

No.

### **Additional Notes:**

Analysis of Inspector scores can reveal any inspector biases or inconsistencies.

### **Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Inspector
3	Site Name
4	System
5	Total Number of Inspections
6	Number of Green Scores
7	Number of Amber Scores
8	Number of Red Scores
9	% of Green Scores
10	% of Amber Scores
11	% of Red Scores

QA 12D – Inspection Matrix – Inspector Inspection Summary

**Basic Description:**

A cross-tab report (pivot table); for each Inspector a count of Green, Amber, Red scores.

**If this report is tabular, then what are the rows?**

Each row is a unique INSPECTOR.

Report can be executed at the Site and Complex levels.

**Is this report filtered? If so, how?**

No.

**Additional Notes:**

Analysis of Inspector scores can reveal any inspector biases or inconsistencies.

**Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Average Score
4	Total Number of Inspections
5	Number of Green Scores
6	Number of Amber Scores
7	Number of Red Scores
8	% of Green Scores
9	% of Amber Scores
10	% of Red Scores

## QA 12E – Inspection Matrix –System Summary

### **Basic Description:**

A cross-tab report (pivot table); for each System a count of Green, Amber, Red scores by system. Bar Graph shows breakdown of Scores for each System.

### **If this report is tabular, then what are the rows?**

Each row is a unique SYSTEM.

Report can be executed at the Site and Complex levels.

### **Is this report filtered? If so, how?**

No.

### **Additional Notes:**

Emphasizes systems needing additional sustainment consideration.

### **Report Columns:**

ORDER	COLUMN NAME
1	Site Name
2	Total Number of Inspections
3	Green Scores
4	Amber Scores
5	Red Scores

QA 13A - Assessment Progress Report, QA 13B - 5 Year Assessment Progress Report and QA 13A -& QA 13B – Summary

**Basic Description:**

Each report shows the percentage of USAF inventory for which the assessment of the seven key systems has been completed in BUILDER, at any time on the QA 13A or within the last 5 years on QA 13B. A drill-down can be expanded to see the details for each facility including Real Property Data Elements, System Condition Indices (SCI) for the seven key systems and Completion Status for each facility as well as Total Facilities, Facilities Completed, Completion Percentage, Complete Square Footage, Total Square Footage and Square Footage Completion Percentage at the Site and Complex hierarchy levels.

**If this report is tabular, then what are the rows?**

In the expandable detail section of this report, each row is a unique facility.

Reports can be executed at the Organization, Site and Complex levels. QA 13 A & B - Summary reports can be executed at top USAF and Organization levels only.

**Is this report filtered? If so, how?**

Yes, the report only shows Facilities whose status is “Active”

Selectable drop down filters are applied when running these reports. These include:

- Unit of Measure
- Activity
- Sustainment Organization
- RPA Type
- RPA Interest Type
- MDI

The QA 13B - 5 Year Assessment Progress Report is further filtered to only include inspections that fall within the last 5 years.

The QA 13A & B - Summary reports display only the organizational and site level summary numbers and percentages.

**Report Columns:**

ORDER	COLUMN NAME
1	Organization
2	Site
3	Complex
4	RPA Name (Building Number and Name)
5	RPUID
6	MDI
7	Quantity
8	UoM
9	PRV
10	RPA Interest Type
11	RPA Type
12	Sustainment Organization
13	B20
14	B30
15	C10
16	D20
17	D30
18	D40
19	D50
20	Completion Status
21	Total Facilities
22	Facilities Completed
23	Completion Percentage
24	Complete SF
25	Total SF
26	SF Completion Percentage

\*QA 13A & B Summary reports fields.



### **Additional Notes:**

The original QA 13 Assessment Progress Report has been replaced with four new reports. These include the QA 13A – Assessment Progress Report, QA 13 B – 5 Year Assessment Progress Report, QA 13A – Summary and QA 13B – Summary.

For the QA 13 A – Assessment Progress Report, 100% of the inventoried sections, within each of the seven key systems, must have an inspection for a system to be complete. These inspections can be at any time within the life of the sections and include the initial install inspections created by BUILDER for the install year of the section, for “aged-based” inspected sections. A facility is complete when all of its systems, within the seven key systems, that have been defined for the facility in the BUILDER inventory are complete. If a system exists in the inventory for a facility but does not have any sections defined for it, that system will be incomplete, thus the facility will be incomplete. An incomplete system is indicated on the report with a blank System Condition Index (SCI) field. If a facility does not include any one of the seven key systems in its inventory hierarchy, that system does not count towards the completion of the facility and the SCI field for that system will be marked “N/A” for Not Applicable.

For QA 13 B – 5 Year Assessment Progress Report, 75% of the latest section inspections for each system must be current within the last 5 years. A facility is complete when all of its systems, within the seven key systems, that have been defined for the facility in the BUILDER inventory are complete. If a system exists in the inventory for a facility but does not have any sections defined for it, that system will be incomplete, thus the facility will be incomplete. If a system exists with sections but the latest section inspections are no longer current within the last 5 years that system will be incomplete, thus the facility will be incomplete. An incomplete system is indicated on the report with a blank System Condition Index (SCI) field. If a facility does not include any one of the seven key systems in its inventory hierarchy, that system does not count towards the completion of the facility and the SCI field for that system will be marked “N/A” for Not Applicable.

For each of the selectable filters you can “Select All” or select any combination of the available values. UoM, Activity, Sustainment Organization and MDI are initially set to “Select All” when the report is opened in the Custom Report viewer but can be changed to the desired values. Values for RPA Type and RPA Interest Type must also be selected to run the report. Select the desired filter values in the drop downs then click on the View Report Button to execute the report.

A data table containing USAF Real Property data has been added to the USAF BUILDER database and several real property data elements from the table, including Activity, Sustainment Organization, RPA Type and RPA Interest Type, have been linked to the QA 13 Custom Reports. These Real Property data elements are not utilized by the BUILDER SMS application nor maintained through the BUILDER interface but have been linked for reporting purposes only through the Custom Reports. The data table is periodically updated in the BUILDER database with updates provided by USAF.

Desired Filters are as follows to run the report to get the same data as reported to OSD on AF status completion. These filters must be used at all organizational levels to ensure initial completion data and compliance with 5 year assessments is consistent across the enterprise regardless of what organizational level runs the report. UOM: (Select All); Activity: (Select All); Sustainment Organization: Select all but DOT, GSA, MDA, NGIA, NATO, N/A, Other Nations, Private Organizations, and State and Local Agencies; RPA Type: B, S, LS; RPA Interest Type: (Select All); MDI Filter (Select All)

### QA 13: RPA Interest Type Codes

Pick List Name	Code	Code Title	Code Definition	Source
RPA Interest Type Code	EASE	Easement	A nonpossessory interest in real property granted to the U.S. Government by the owner that authorizes the right to use such asset in the specified manner.	OSD defined value
RPA Interest Type Code	FEE	U.S. Government owned property, DoD Accountability	An interest in a real property asset where a fee simple ownership interest is held by the U.S. Government, and a Military Department or WHS exercises accountability. Assets constructed by the U.S. Government in a foreign country and controlled by U.S. Government forces will be recorded as FEE.	OSD defined value
RPA Interest Type Code	GVPV	Government/Private Agreement	An interest in a real property asset held by the U.S. Government acquired by a mutually beneficial partnership agreement between a Military Department or WHS and a private entity, where equity interest in a project is shared for a specific business purpose. This interest type applies when the DoD has ongoing reported financial statement costs directly associated with an asset(s) gained by the project or the asset is location on a military installation.	OSD defined value
RPA Interest Type Code	LEAS	Leasehold	A possessory interest in real property conveyed to the U.S. Government for a limited period of time by contractual agreement from another party. The agreement is subject to specified conditions and the other party retains ownership of the asset.	OSD defined value
RPA Interest Type Code	LESS	Lesser Interest, as defined by a legal instrument	An interest in a real property asset held by the DoD that is less than a fee interest and does not fall into any other category. The specific interest granted to the DoD must be detailed in the transfer instrument granting DoD's interest.	OSD defined value
RPA Interest Type Code	MHPI	Military Housing Privatization Initiative	An interest in a real property asset held by a private entity for military housing (family or unaccompanied) and associated assets pursuant to Title 10 United States Code, Sections 2871 to 2885.	OSD defined value
RPA Interest Type Code	ONFA	U.S. Government owned property, Non-DoD Accountability	An interest in a real property asset where a fee simple ownership interest is held by the U.S. Government and accountability is exercised by a non-DoD federal agency. This interest type does not include public lands or interest in land owned by the United States administered by the Secretary of the Interior through the Bureau of Land Management which are to be reported as PDOM.	OSD defined value
RPA Interest Type Code	ONFG	Owned by Foreign Government	A possessory interest in real property conveyed to the U.S. Government by a foreign government / host nation that constructed and holds title to the real property asset. A Military Department or WHS exercises accountability on behalf of the U.S. Government. The U.S. Government has been granted control of the asset by the foreign government/host nation by consent or formal agreement.	OSD defined value
RPA Interest Type Code	ONST	Owned by State or Local Government	A possessory interest in real property conveyed to the U.S. Government by a state or one of its political subdivisions that holds title to the real property asset. A Military Department or WHS exercises accountability on behalf of the U.S. Government.	OSD defined value
RPA Interest Type Code	PDOM	U.S. Government owned land, Public Domain	An interest in public lands or interest in land owned by the U.S. Government, administered by the Secretary of the Interior through the Bureau of Land Management, where a Military Department or WHS exercises accountability on behalf of the U.S. Government.	OSD defined value
RPA Interest Type Code	PRIV	Owned by Private Entity (franchise, bank, etc.)	An interest in a real property facility that is owned and controlled by a private entity and operating with permission on U.S. Government owned land. This would include assets gained by an agreement between a Military Department or WHS and a private entity, where an equity interest in a project is shared for a specific business purpose where the DoD does not have ongoing reported financial statement costs directly associated with an asset(s) gained by the project.	OSD defined value

## QA Review Report (Formerly DIGON QA Review Report)

### **Basic Description:**

This report is a comprehensive SECTION level report that contains details about each section broken into multiple, color coded categories including: Building Info (cyan), Section Inventory along with including any SECTION-DETAIL Equipment IDs (magenta), Inspection Data from the latest inspection (green), relevant BUILDER Calculations - SECTION Level Metrics (violet) and finally a spaces for reviewer COMMENTS and responses when exported to Excel (orange). The report serves as a Quality Assurance tool when evaluating SECTION data.

### **If this report is tabular, then what are the rows?**

Each row is a unique BUILDER SECTION.

Report can be executed at the Site, Complex and Building levels.

### **Is this report filtered? If so, how?**

No, this report shows all SECTIONS.

### **Additional Notes:**

This report was originally produced by DIGON SYSTEMS (Formerly Inflection Networks) a distribution, training, support and consulting partner for the BUILDER, ROOFER and RAILER asset management tools within the SMS ([www.digonsystems.com](http://www.digonsystems.com)). The report served as part of DIGON's BUILDER QA Review processes. With the USAF Custom Reports reconciliation, some of the report column names have been changed from the original DIGON report to correspond to the BUILDER terminology and the other USAF custom reports. This version of the report is now specific to USAF and has been renamed to QA Review

An "Expected CI" is calculated by the report as the expected Component-Section Condition Index (CSCI) for the section based on condition and age prior to the last inspection at the time of report generation. The Current Estimated CI is calculated as what the current CSCI is at the time of the report generation based on the last inspection and time since the inspection. Note: The report Current Estimated CI may not be the same as the CSCI shown in the BUILDER interface depending on when the report was run and when the last rollup was executed in the BUILDER database. Replacement Cost is calculated as a parametric cost estimate of replacement for each section based on the current default BUILDER cost book.

The report also includes several database Global Unique Identifier (GUID) columns that can be used to link other related data or as filters in Excel.

## QA Review Report Continued

### Report Columns:

ORDER	COLUMN NAME
1	Index
2	Site Number
3	Site Name
4	Building Number
5	Building Name
6	RPUID
7	Year Built
8	Building Area
9	Building PRV
10	Floors
11	Building Photo?
12	System
13	Component
14	Material/Equipment Category
15	Component Subtype
16	Section Name
17	Quantity
18	UoM
19	Install Date
20	Is Year Estimated?
21	Inventory Section Comments
22	Section Photo?
23	Equipment ID
24	Section ID (Truncated GUID)
25	Inspection Type
26	Distressed SubComponents
27	Distressed SubComponents N/A
28	Distressed SubComponents D/F

ORDER	COLUMN NAME
29	Distresses
30	Distress Densities
31	Distress Severities
32	Critical or ESC?
33	Sample Name
34	Inspection Date
35	Inspector
36	Inspection Comments
37	Inspection Photo?
38	Inspector Rating
39	Inspection Data ID (Truncated GUID)
40	Expected CI
41	Difference Between Expected CI
42	Current Estimated CI
43	Replacement Cost
44	Design Life (DL)
45	Age
46	% of Design Life Used
47	Remaining Service Life
48	Reviewer X
49	Reviewer Y
50	Reviewer Z
51	Response
52	Action Items
53	Site ID (GUID)
54	Section ID (GUID)
55	Inspection ID (GUID)
56	Top Organization ID (GUID)
57	Top Organization Name (GUID)

## QC 01 – Facility Report

### **Basic Description:**

A list of buildings entered into BUILDER where the BCI is not null, the BCI has a value 0 or above.

### **If this report is tabular, then what are the rows?**

Each row is a unique BUILDING.

### **Is this report filtered? If so, how?**

Yes, this report shows only buildings for which the BCI is not null.

Report can be executed at the Site, Complex and Building levels.

### **Additional Notes:**

Key columns are provided to aid the user in the Quality Control phase of data entry. The report gives the total number of sections inventoried and highlights in pink when there are less than 10 sections inventoried for the building.

The report also includes several database Global Unique Identifier (GUID) columns that can be used to link other related data or as filters in Excel.

### **Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Complex Number
4	Complex Name
5	Building Number
6	Building Name
7	Category Code
8	Year Built
9	Building Area
10	UoM
11	Floors
12	BCI
13	Building PRV
14	Number of Sections
15	Site ID (GUID)
16	Complex ID (GUID)
17	Building ID (GUID)

## QC 02 – System Report

### **Basic Description:**

A list of all SYSTEMS entered into BUILDER for Buildings where the BCI is not null, that is it the BCI has a value 0 or above.

### **If this report is tabular, then what are the rows?**

Each row is a unique System (UNIFORMAT Level II).

### **Is this report filtered? If so, how?**

Yes, this report shows Systems for buildings where the BCI is not null.

Report can be executed at the Site, and Complex levels.

### **Additional Notes:**

Key columns are provided to aid the user in the Quality Control phase of data entry. Report will provide all SYSTEMS (UNIFORMAT Level II) that are currently expanded in BUILDER for a specific facility and whether a SECTION(s) has been inventoried within that System. Systems with zero (0) SECTIONS will be highlighted pink under Number of Sections column.

Example: If a building has five (5) sections of D5020 Lighting & Branch Wiring but no D5010 Electrical Service & Distribution, at least one Panelboard is missing in inventory. If a building has a B20 Exterior Enclosure but does not have a section under B2030 Exterior Doors, one probably exists but not inventoried.

The report also includes several database Global Unique Identifier (GUID) columns that can be used to link other related data or as filters in Excel.

### **Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Complex Number
4	Complex Name
5	Building Number
6	Building Name
7	Year Built
8	Building Area
9	UoM
10	Floors
11	BCI
12	System
13	System CI
14	Number of Sections
15	Site ID (GUID)
16	Complex ID (GUID)
17	Building ID (GUID)
18	System ID (GUID)
19	Component ID (GUID)

## QC 03 – Component Report

### **Basic Description:**

A list of all COMPONENTS entered into BUILDER for Buildings where the BCI is not null, that is it the BCI has a value 0 or above.

### **If this report is tabular, then what are the rows?**

Each row is a unique COMPONENT (UNIFORMAT Level III).

### **Is this report filtered? If so, how?**

Yes, this report shows components for buildings where the BCI is not null.

Report can be executed at the Site, Complex and Building levels.

### **Additional Notes:**

Key columns are provided to aid the user in the Quality Control phase of data entry. Report will provide all COMPONENTS (UNIFORMAT Level III) that are currently expanded in BUILDER for a specific facility and whether a SECTION(s) has been inventoried within that COMPONENT. COMPONENTS with zero (0) SECTIONS will be highlighted pink under Number of Sections column.

Example: If a building has five (5) sections of D5020 Lighting & Branch Wiring but no D5010 Electrical Service & Distribution, at least one Panelboard is missing in inventory. If a building has a B20 Exterior Enclosure but does not have a section under B2030 Exterior Doors, one probably exists but not inventoried.

The report also includes several database Global Unique Identifier (GUID) columns that can be used to link other related data or as filters in Excel.

### **Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Complex Number
4	Complex Name
5	Building Number
6	Building Name
7	Year Built
8	Building Area
9	UoM
10	Floors
11	BCI
12	System
13	Component
14	BCCI
15	CRV
16	Number of Sections
17	Site ID (GUID)
18	Complex ID (GUID)
19	Building ID (GUID)
20	System ID (GUID)
21	Component ID (GUID)

## QC 04 – Component-Section Report

### **Basic Description:**

A list of all SECTIONS entered into BUILDER for Buildings where the BCI is not null, that is it the BCI has a value 0 or above.

### **If this report is tabular, then what are the rows?**

Each row is a unique SECTION.

### **Is this report filtered? If so, how?**

No.

Report can be executed at the Site, Complex and Building levels.

### **Additional Notes:**

Key columns are provided to aid the user in the Quality Control phase of data entry.

Inventoried section without an Inspection is highlighted as pink under Number of Inspections column.

The report also includes several database Global Unique Identifier (GUID) columns that can be used to link other related data or as filters in Excel.

### **Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Complex Number
4	Complex Name
5	Building Number
6	Building Name
7	Year Built
8	Building Area
9	UoM
10	Floors
11	System
12	Component
13	Material/Equipment Category
14	Component Subtype
15	Section Name
16	Section Quantity
17	Section UoM
18	Section Install Date
19	Install Date Source
20	Design Life (DL)
21	Section Age
22	Section RDL
23	RSL (years)
24	Painted?
25	Paint Year
26	Section CI
27	Paint CI
28	Inventory Section Comments
29	Number of Inspections
30	Number of Details
31	Number of Section Images
32	Site ID (GUID)
33	Complex ID (GUID)
34	Building ID (GUID)
35	System ID (GUID)
36	Component ID (GUID)
37	Section ID (GUID)



## QC 05 – Section Details Report

### **Basic Description**

A list of SECTION-DETAILS entered into BUILDER.

### **If this report is tabular, then what are the rows?**

Each row is a unique SECTION-DETAIL.

### **Is this report filtered? If so, how?**

No.

Report can be executed at the Site, Complex and Building levels.

### **Additional Notes:**

Key columns are provided to aid the user in the Quality Control phase of data entry.

A Section is defined using a selected combination of a Material/Equipment Category and Component Subtype. This corresponds to a BUILDER Catalog item identified in BUILDER by a unique BUILDER Component Material Category (CMC) identifier.

The report also includes several database Global Unique Identifier (GUID) columns that can be used to link other related data or as filters in Excel.

### **Report Columns:**

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Complex Number
4	Complex Name
5	Building Number
6	Building Name
7	Year Built
8	Building Area
9	UoM
10	Floors
11	System
12	Component
13	Material/Equipment Category
14	Component Subtype

ORDER	COLUMN NAME
15	CMC
16	Section Name
17	Section Quantity
18	Section UoM
19	Section Install Date
20	Install Date Source
21	Design Life (DL)
22	Section Age
23	Section RDL
24	RSL (years)
25	Painted?
26	Paint Year
27	Section CI
28	Paint CI
29	Inventory Section Comments
30	ID Number
31	Equipment Type
32	Equipment Make
33	Model
34	Serial Number
35	Capacity
36	Manufacturer
37	Date Manufactured
38	Date Installed
39	Control Type Make
40	Warranty Date
41	Warranty Company
42	Location
43	Section Detail Comments
44	Warranty Date 2
45	Warranty Company 2
46	Number Detail Images
47	Site ID (GUID)
48	Complex ID (GUID)
49	Building ID (GUID)
50	System ID (GUID)
51	Component ID (GUID)
52	Section ID (GUID)
53	Section Detail ID (GUID)

## QC 06 – Inspection Report

### **Basic Description:**

A list of all INSPECTIONS entered into BUILDER.

### **If this report is tabular, then what are the rows?**

Each row is a unique INSPECTION.

### **Is this report filtered? If so, how?**

No, this report shows ALL inspections, not only the LATEST.

Report can be executed at the Site, Complex and Building levels.

### **Additional Notes:**

The Inspection Rating column is highlighted in PINK when the difference between the Section CI (CSCI) and the Inspection Rating is greater than 20 points.

Calculated current Section CI is the BUILDER current Condition Index of the Section projected from the latest (most recent) Inspection Rating.

Expected Rating is the BUILDER projected Condition Index of the Section based on previous (next most recent) Inspection Rating.

The Inspection Comments column is highlighted pink if the Inspection Rating is Amber+ or less and no comment is entered.

This report is normally the primary report used to determine the quality of inventory and inspection information when facility condition assessments are accomplished.

## QC 06 – Inspection Report Continued

### Report Columns:

ORDER	COLUMN NAME
1	Site Number
2	Site Name
3	Complex Number
4	Complex Name
5	Building Number
6	Building Name
7	Year Built
8	Building Area
9	UoM
10	Floors
11	System
12	Component
13	Material/Equipment Category
4	Component Subtype
15	Section Name
16	Section Quantity
17	Section UoM
18	Section Install Date
19	Install Date Source
20	Section Age
21	Section RDL
22	RSL (years)

ORDER	COLUMN NAME
23	Painted?
24	Paint Year
25	Section CI
26	Paint CI
27	Inventory Section Comments
28	Inspection Date
29	Inspection Type
30	Inspection Source
31	Inspector
32	Expected Rating
33	Inspection Rating
34	Paint Rating
35	Number of Inspection Images
36	Inspection Comments
37	Site ID
38	Complex ID
39	Building ID
40	System ID
41	Component ID
42	Section ID
43	Inspection ID

## Scenario Summary

**Basic Description:**

A Building level report which shows all years of a selected Scenario, along with Scenario generated Work Item details.

**If this report is tabular, then what are the rows?**

Each row is a unique Building level item, with the detail tab showing Section level Work Items.

**Is this report filtered? If so, how?**

Yes, this report does not show Demolished or Transferred Buildings.

Report can be executed at the Site level.

**Additional Notes:**

Report is formatted for export to Excel.

The Scenario for the report is selected as a parameter within the Custom Reports window as is Include Details. If “Include Details” is selected as “True” within the Custom Reports window Both the Summary Tab and Details Tab will be included in the report.

Only Scenarios that has been run to a “Complete” Status in The Scenarios module can be selected for the Report.

**Report Columns:**

ORDER	COLUMN NAME
	<b>Summary Tab</b>
1	Building
2	Building ID
3	Sustainment Org Code
4	Building Area
5	Building PRV
6	Total Work Cost
7	Year (ex 2018)
8	FY Work Cost
9	BCI
	<b>Details Tab</b>
1	Building Name
2	RPUID
3	Material/Equipment Category
4	Component Subtype
5	Work Type
6	Funding Year
7	Actual Cost
8	Priority Score
9	Current CI
10	Projected CI
38	Current RSL
39	Quantity
40	UoM
41	Last Inspected Type
42	Last Inspected Rating
43	Inspection Comments
44	Equipment ID

## Section Report with Images

**Basic Description:**

This report generates a printable report. Starting with the chosen building, this report shows each SECTION and any associated images loaded at that SECTION level. Then, the report displays all SECTION DETAILS (i.e. pieces of equipment) associated with that SECTION and all images associated with that SECTION DETAIL.

**If this report is tabular, then what are the rows?**

This report is not tabular.


Report can be executed at the Building level.

**Is this report filtered? If so, how?**

No, this report displays all SECTIONS existing for selected building and all SECTION DETAILS associated with each SECTION.

Report can be executed at the Building level.

**Sample Page:**



### Section Report with Images

Report Generated From BUILDER SMS on: 4/4/2016 10:34:22 AM


This report displays Sections and Section Details for chosen Facility and any associated Section and Section Detail Images if they exist.

SECTION		
Facility	00229	BASE MAINTENANCE SHOP
System	D30 HVAC	
Component	D3050 TERMINAL & PACKAGE UNITS	
Section	D305006 PACKAGE UNITS	Ductless Split Systems      Packaged A/C, Air Cooled, Elec Heat


SECTION DETAILS	
SD_ID	0b1fe7d3-d5f9-4c1a-9c47-6a558e985b76
Type	
Make	
Manufacturer	CARRIER CORP.
Model	40QNH018320



Unit\_3

SECTION DETAILS	
SD_ID	8d766d6b-9a10-472c-934d-107e47b7fc0b
Type	
Make	
Manufacturer	CARRIER CORP.
Model	40QNH018320



Unit\_2

## User List

### **Basic Description:**

This report displays the User Names along with basic user information, such as permissions level, last login, etc.

### **If this report is tabular, then what are the rows?**

Each row is a unique User.

### **Is this report filtered? If so, how?**

Yes, report does not include disabled accounts but does include locked accounts.

Report can be executed at the Site level.

### **Additional Notes:**

Organizations, units, etc. should use this report to determine who has authorized access to their data from their level. POCs should review and request account disabling for those no longer requiring access.

### **Report Columns:**

ORDER	COLUMN NAME
1	Organization Path
2	Last Name
3	First Name
4	User Name
5	Account Created
6	Last Login
7	Role
8	Read Only

## Appendix

UNIFORMAT II System Hierarchy in BUILDER

Major Group Elements	System	Description
A – Substructure	A10	Foundations
	A20	Basement Construction
B – Shell	B10	Superstructure
	B20	Exterior Enclosure
	B30	Roofing
C – Interiors	C10	Interior Construction
	C20	Stairs
	C30	Interior Finishes*
D – Services	D10	Conveying
	D20	Plumbing
	D30	HVAC
	D40	Fire Protection
	D50	Electrical
E – Equipment and Furnishings	E10	Equipment
	E20	Furnishings
F – Special Construction & Demolition	F10	Special Construction
	F20	Selective Building Demolition
G – Building Site Work	G10	Site Preparation
	G20	Site Improvements
	G30	Site Mechanical Utilities
	G40	Site Electrical Utilities
	G90	Other Site Construction

7 USAF Key Systems

\* C30 is now required for Dorms and MFH (per the last update of the USAF BUILDER Playbook).