



Falcon Group – A Force for Good
***Zenator Systems* Functionality Review**
Through the Project Life Cycle
Performance You Can Trust



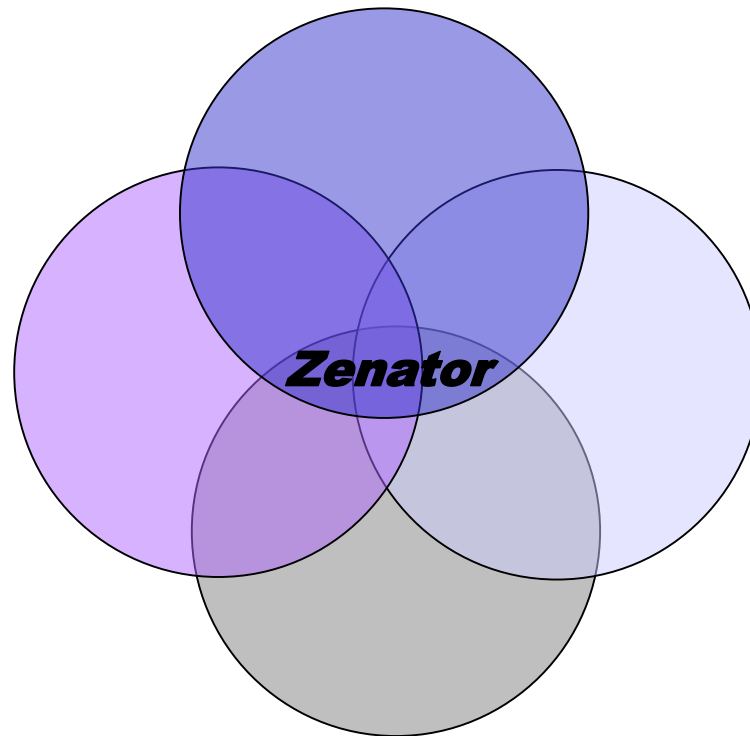
A Force for Good



Systems Completion through Commissioning & Start-Up

**Super User and Power User
Accredited Training**

**Help Desk and
Product Support**



**Technical
Consultancy and
On Site Support**

**MasterClass Training in Systems Completion and
Commissioning & Start-Up with API RP 1 FSC**



A Force for Good

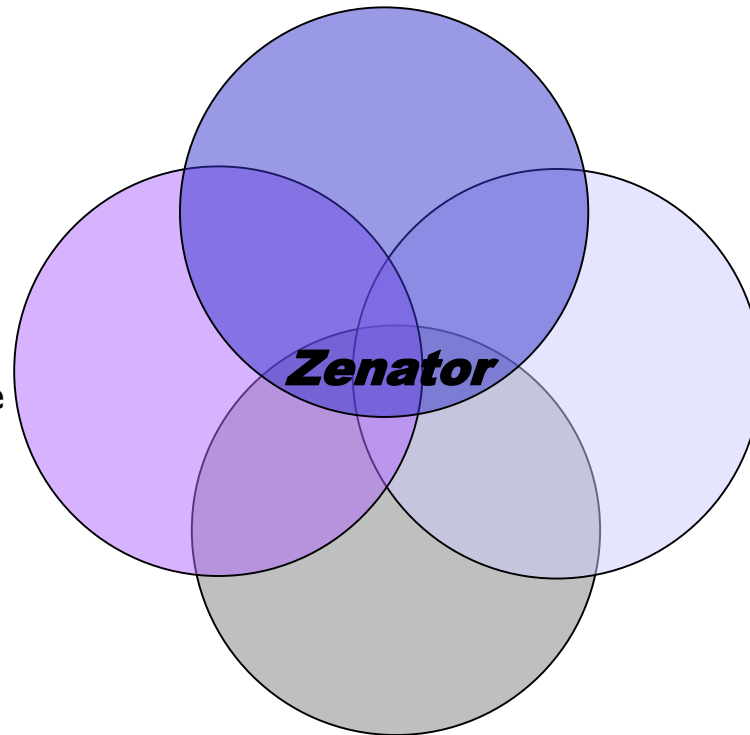


Systems Completion through Commissioning & Start-Up

**Systems Completion & CSU for
Commissioning Manager**

**In accordance
with API RP 1 FSC**

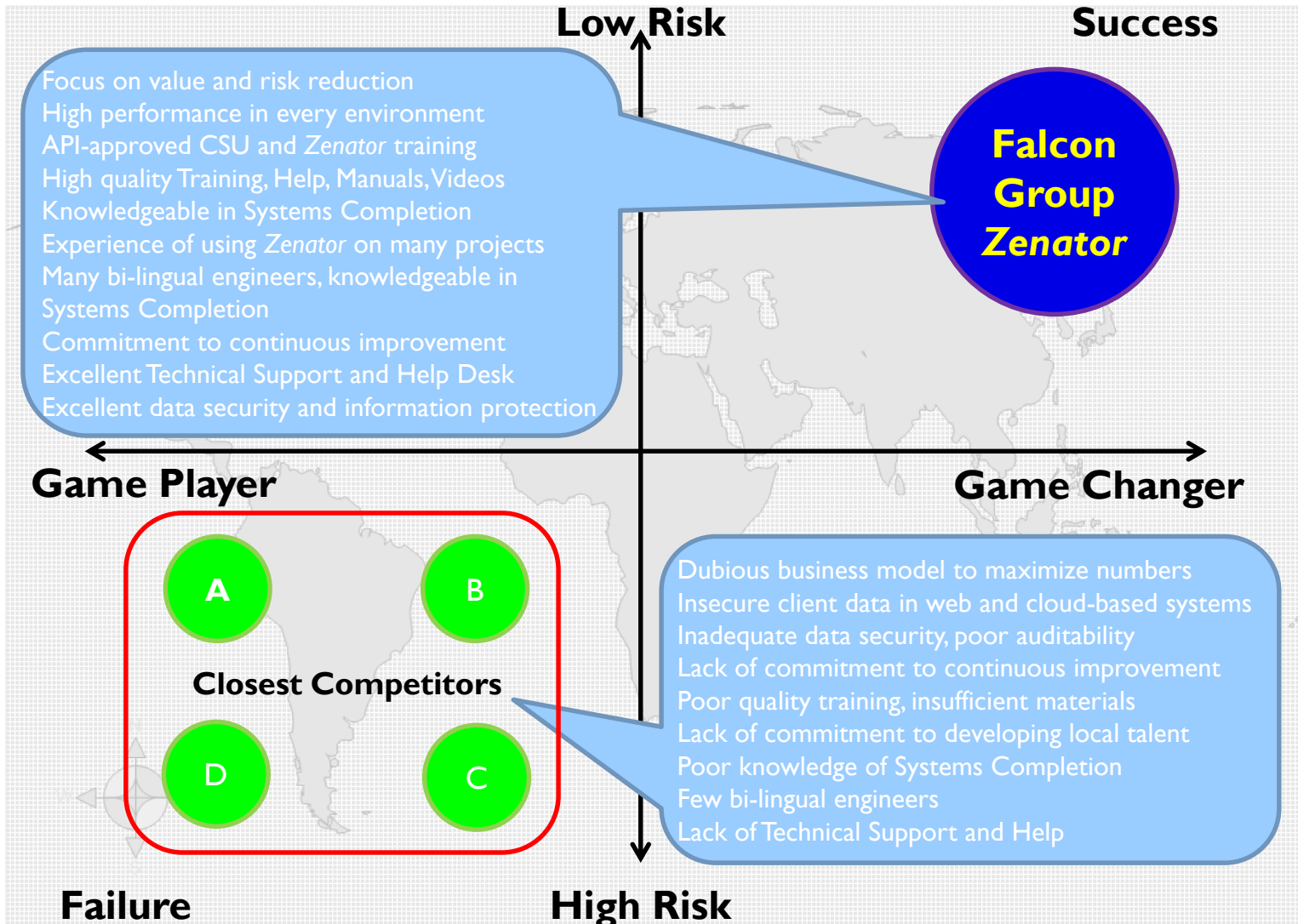
**Excellent
Corporate Governance**



**Feeding Operations
At System
Handovers**

**Mechanical Completions Turnovers from
Construction Manager**

We are a Game Changer






Systems Completion Execution Process Zenator in a Photo





Zenator Systems Methodology

A hand is visible on the left side of the slide, pointing towards the technical drawing. The drawing is on a blue background and contains various lines and text, including the words 'TOUGH' and 'TOUGH' in a stylized font.

Progressive Systems Completion Methodology In Accordance with API RP 1FSC



Zenator

Throughout the Project Life Cycle



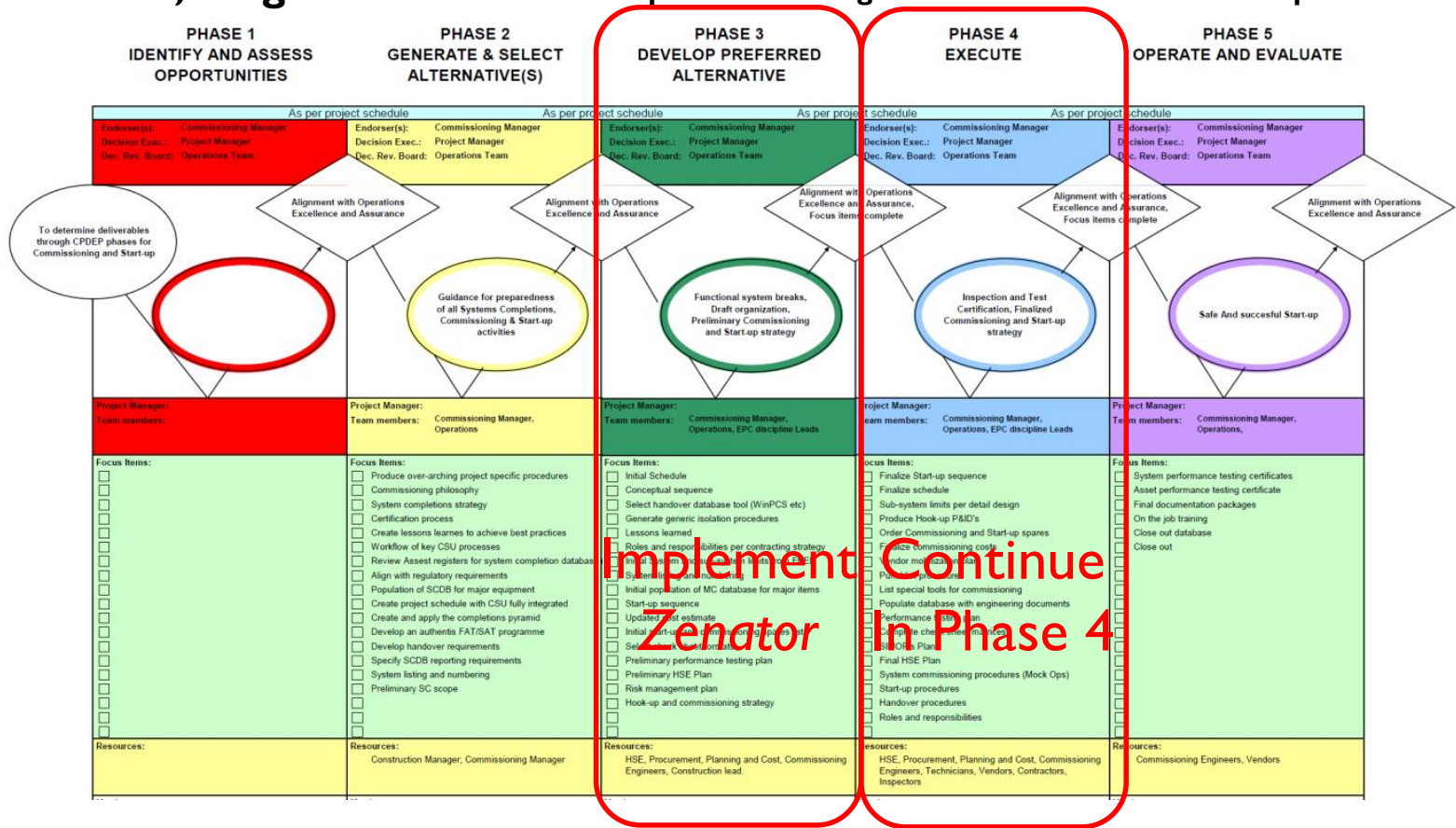
Frequently, Operators and Contractors implement tools like *Zenator* too late
Usually, this is during Phase 4 – Execute
Or sometimes at the start of Phase 4
We propose there is greater Value than Cost in early implementation of *Zenator*, during Phase 3 – Develop Preferred Alternative



Zenator

Throughout the Project Life Cycle

5 Phase, Stage-Gate Process Reproduced with grateful thanks to Chevron Corporation

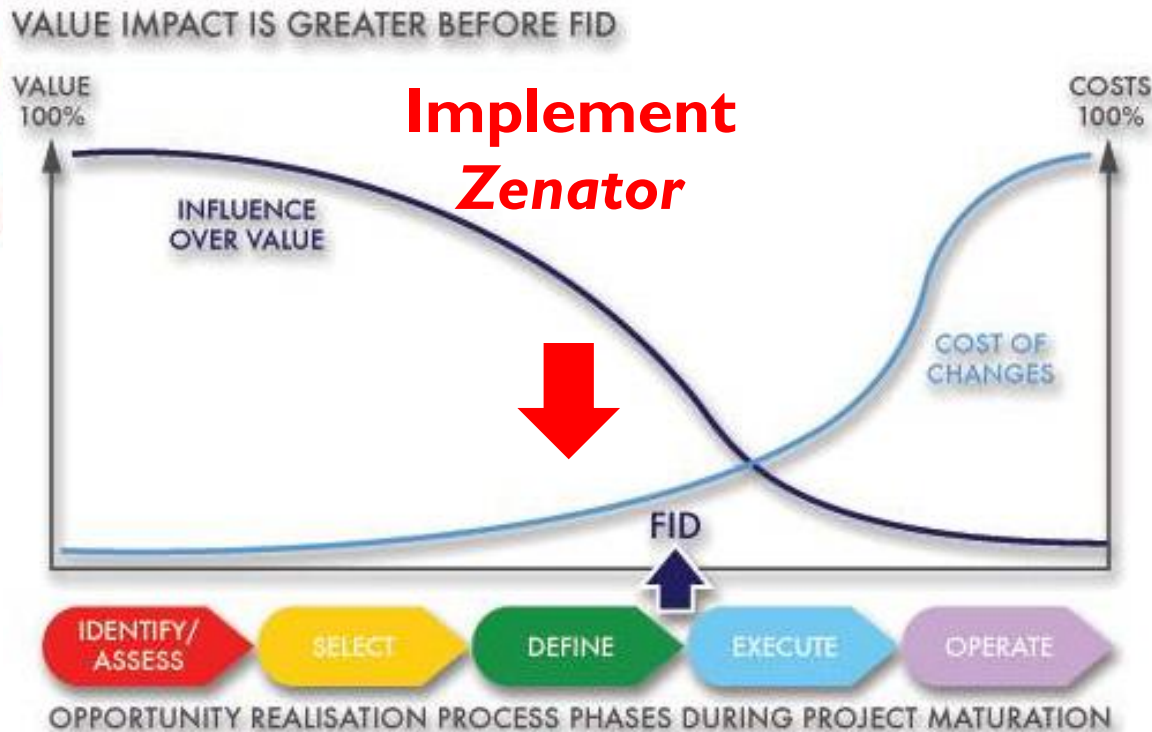


In order for the Commissioning and Start-Up phase to be successful and the overall outcome of the project to be seen as successful, much of our effort will focus in the earlier stages of the project life cycle, in Phases 2 & 3.

Zenator

Throughout the Project Life Cycle

Influence Curve over Project Life Cycle Reproduced with grateful thanks to Shell Oil



Notice in the diagram the 5 Stage Gate phases in a project there are two curves overlaid;

1. The **Influence Curve** which declines from Phase I
2. The **Cost Change Curve**, increasing from Phase I

The two curves are anecdotal, not scientific, but they are true, proven by experience.

Notice that near the end of Phase 3, a final investment decision (FID) is taken.

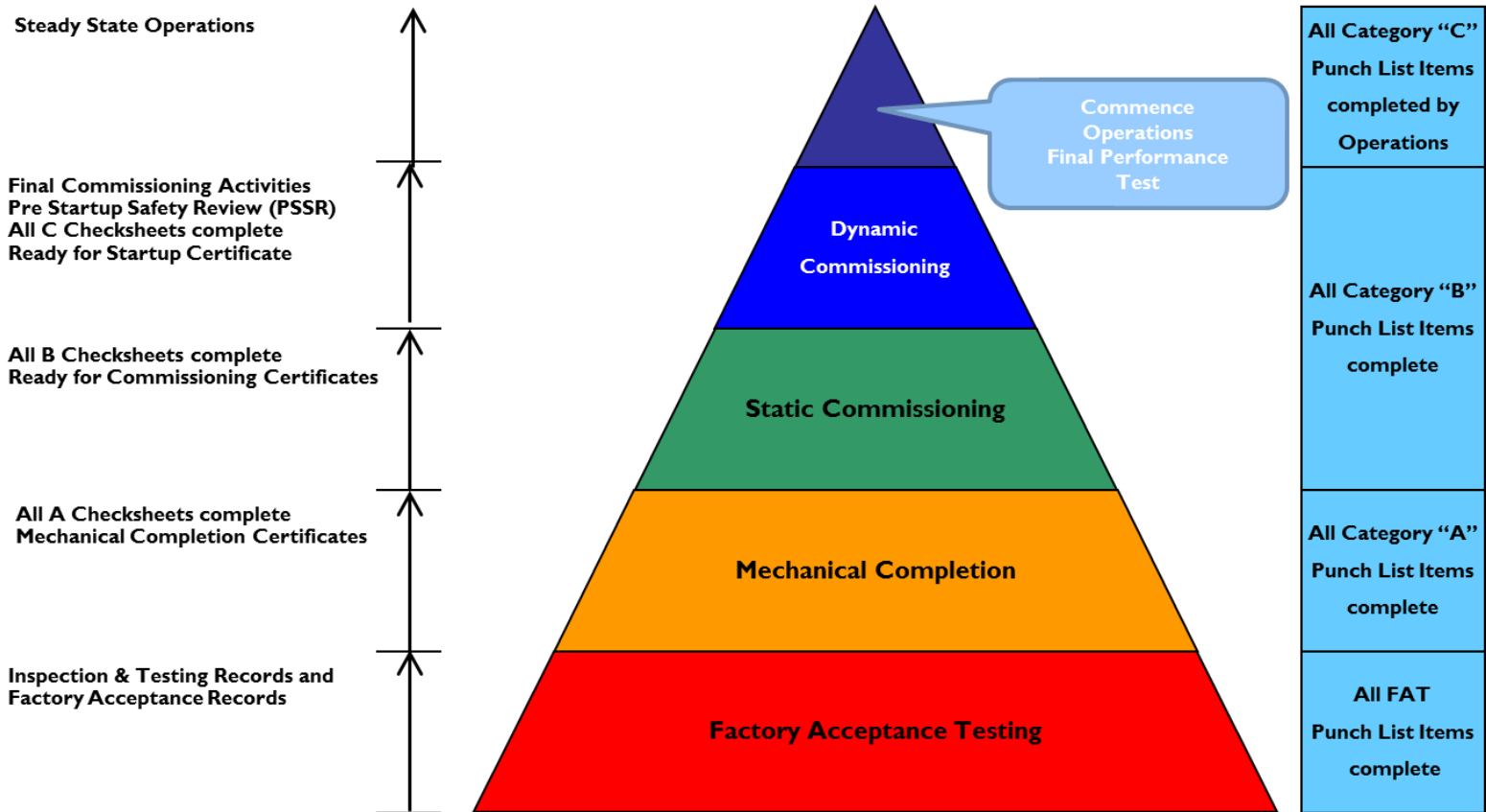
If positive, the project will move into the next Phase, Execute.

See also the statement that value impact is greater before FID.



Zenator

Throughout the Project Life Cycle



Completions Pyramid © 2005
With reference to API RP 1FSC Figure 1



Zenator Check



FEED, Detailed Engineering and Procurement

During this phase *Zenator* will allow detailed tracking of:

- Major Items of Equipment and Long Lead Time Equipment systemized to at least a System level.
- Key procurement information including Purchase Order Numbers and Manufacturers / Vendors.
- Complex relationships between items of equipment such as a Skid for a Compressor and all the individual components that make up the compressor.
- Factory Acceptance Tests, Inspection Release Notices and finally Material Receiving Inspections all be tracked through Vendor Inspection Test Records or VITRs.
- Carry over Punch List Items.
- **Preservations or PITRs via a Tag Type Matrix.**



Zenator Check

Systemized major Items of Equipment and Long Lead Time Equipment

Global Falcon - Zenator Check: Detailed Engineering Design Phase

File Edit View Document Generation Maintenance Tools Administrator Help

Data Source: SUPPORT3321-CB Project Groups Refresh Project Back Forward Views cbell

Detailed Engineering Design Phase

- 01: Commissionable
 - 035: Production & Test Separators
 - BDV-2014: MBF-2010 INLET PROCESS GAS TO...
 - BDY-2014: MBF-2010 INLET PROCESS GAS TO...
 - ESDV-2000: MBD-2000 OUTLET TO PROD. WT...
 - ESDV-2001: MBD-2000 OUTLET TO CONDENS...
 - HBG-2080A-B: Production Separator # 3 Inlet Co...
 - MBD-2000: Production Separator # 3
 - 040: Gas Compression**
 - 10in-PG-AM-264-MD2: MBF-2010 --to--TRIM
 - 10in-PG-AM-285-ME2: NAP2900--to--TRIM
 - 18in-PG-A-202-MD2: 18"-PG-AM202-MD2--to--18
 - 18in-PG-A-234-MD2: 18"-PG-A202-MD2--to--18"
 - 18in-PG-A-245-MD2: 18"-PG-2014-D2--to--18"-PG
 - 2in-PG-AM-293-MF1: 2"-PG-AM276-MD2--to--CBA
 - AAP_2075: Heater for Lube Oil Tank BBJ-2074 /
 - ABJ-2070: Turbine Fired Wash Tank
 - ABJ-2071: Turbine Crank Soak Tank
 - ABJ-2073: Compressor Lube Oil Overhead Tank
 - BDV-2044: MBF-2040 OUTLET DEPRESSURIN
 - BDY-2044: MBF-2040 OUTLET DEPRESSURIN
 - CBA-2020: Production Compressor
 - CBA-2910: Seal Gas Booster Compressor
 - ESDV-2011: MBF-2010 OUTLET TO PRODUCEI
 - ESDV-20200: CBA-2020 PROD. COMP. TO FUE
 - ESDV-20201: CBA-2020 PROD. COMP. ANTI SL
 - ESDV-2040: MBF-2040 GAS OUTLET
 - ESDV-2041: MBF-2040 PRODUCED WATER OU
 - ESDV-2042: MBF-2040 GAS OUTLET / SEQUEN

Number	Name	Status	Tag Type	Discipline
10in-PG-AM...	MBF-2010 --to--TRIM	~	Pipe Spool	Piping
10in-PG-AM...	NAP2900--to--TRIM	~	Pipe Spool	Piping
18in-PG-A-2...	18"-PG-AM202-MD2--to--18"-PG-A234-MD2	~	Pipe Spool	Piping
18in-PG-A-2...	18"-PG-A202-MD2--to--18"-PG-A245-MD2	~	Pipe Spool	Piping
18in-PG-A-2...	18"-PG-2014-D2--to--18"-PG-2016-D2	~	Pipe Spool	Piping
2in-PG-AM-2...	2"-PG-AM276-MD2--to--CBA-2910	~	Pipe Spool	Piping
AAP_2075	Heater for Lube Oil Tank BBJ-2074 / Oil Heater	~	Heat Exchanger...	Mechanical
ABJ-2070	Turbine Fired Wash Tank	~	Tank	Mechanical
ABJ-2071	Turbine Crank Soak Tank	~	Tank	Mechanical
ABJ-2073	Compressor Lube Oil Overhead Tank	~	Tank	Mechanical
BDV-2044	MBF-2040 OUTLET DEPRESSURING TO HP RELIEF...	~	Valve - Isolation	Instrumentation
BDY-2044	MBF-2040 OUTLET DEPRESSURING TO HP RELIEF...	~	Valve - Solenoid	Instrumentation
CBA-2020	Production Compressor	~	Centrifugal (Comp)	Mechanical
CBA-2910	Seal Gas Booster Compressor	~	Centrifugal (Comp)	Mechanical
ESDV-2011	MBF-2010 OUTLET TO PRODUCED WATER SKIMM...	~	Valve - Isolation	Instrumentation
ESDV-20200	CBA-2020 PROD. COMP. TO FUEL GAS SUPERHEA...	~	Valve - Isolation	Instrumentation
ESDV-20201	CBA-2020 PROD. COMP. ANTI SURGE BYPASS	~	Valve - Isolation	Instrumentation
ESDV-2040	MBF-2040 GAS OUTLET	~	Valve - Isolation	Instrumentation
ESDV-2041	MBF-2040 PRODUCED WATER OUTLET	~	Valve - Isolation	Instrumentation
ESDV-2043	MBF-2040 GAS OUTLET / SEQUENCE VALVE BYPASS	~	Valve - Isolation	Instrumentation
ESDV-2047	COMPRESSOR PRIMARY SEAL GAS	~	Valve - Isolation	Instrumentation
ESDY-2011	MBF-2010 OUTLET TO PRODUCED WATER SKIMM...	~	Valve - Solenoid	Instrumentation
ESDY-2020...	CBA-2020 PROD. COMP. TO FUEL GAS SUPERHEA...	~	Valve - Solenoid	Instrumentation


Status: Project Group Sort Order: Number Selected Node: 040: Gas Compression Node ID: 2377 Node Type: System [5] Node Status: ~ [0] Role: Administrators



Zenator Check



Key procurement information including Purchase Order Numbers and Manufacturers / Vendors



Global Falcon - Zenator Check: Detailed Engineering Design Phase

File Edit View Document Generation Maintenance Tools Administrator Help

Data Source: SUPPORT3321-CB Project Groups Refresh Project Back Forward Views cbell

Number	Name	Status
ME-0200	Compressor Train No.1	Tagged Item

Modify Tagged Item: Compressor Train No.1

Tagged Item Details Custom Fields Status History

Tag Number:	ME-0200	Tag Status:	Delivered
Description:	Compressor Train No.1	Tag Location:	Storage Area 01
Tag Type:	Compressor Package	Tag Module:	~
Main Tag Type:	Mechanical Package	Tag Service:	~
Discipline:	Mechanical	Replacement Value:	0.00
Serial Number:		Manufacturer:	SOLAR(USA)
P.O. Number:	PO-201501-001	Primary Drawing Ref:	

Is Maintainable Safety Critical Production Critical Commissionable Item

From Tagged Item: ...

To Tagged Item: ...

Help Associated Documents OK Cancel Apply

MA-30-COMP(002)
ME-0220: Compressor Train No.2
P ITR

Status: Project Group Sort Order: Number Selected Node: ME-0200: Compressor Train No.1 Node ID: 6328 Node Type: Tagged Item [7] Node Status: ~ [0] Role: Administrators

Complex Parent and Child Tag Relationships

Global Falcon - Zenator Check: Detailed Engineering Design Phase

Data Source: SUPPORT3321-CB Project Groups Refresh Project Back Forward Views cbell

Number	Name	Status	Tag Type	Discipline
Tagged Item				
Number	Name	Status	Tag Type	Discipline
C-0200	1st Stage Compressor Train No.1	~	Gas Turbine Co...	Mechanical
C-0210	2nd Stage Compressor Train No.1	~	Gas Turbine Co...	Mechanical
C-0215	3rd Stage Compressor Train No.1	~	Gas Turbine Co...	Mechanical
DM-0700	120VDC Backup Lube Oil Pump Motor For Tc No.1	~	Electrical Motor	Electrical
DRV-0700	Lube Oil Backup DC Motor Starter-1	~	Motor Starter	Electrical
EH-0700	Heater For Turbine LO	~	L.O. Heater	Electrical
F-0544	Gas Fuel Filter Train No.1	~	Fuel Filter	Mechanical
FM-0453A	Motor For Compr. LO Cool Train 2 Fan-1	~	AC Motor	Electrical
FM-0453B	Motor For Comp. LO Cool Train 2 Fan-2	~	AC Motor	Electrical
FM-0700A	Motor For Comp. Vent Train 2 Fan-1	~	Electrical Motor	Electrical
FM-0700B	Motor For Comp. Vent Train 2 Fan-2	~	Electrical Motor	Electrical
GT-0700	Gas Turbine Driver Train No.1	~	Gas Turbine Co...	Mechanical
HS-0700A	LCS For HOA S/S-FM-0700A	~	Hand Switch	Instrumentation
HS-0700B	LCS For HOA S/S-FM-0700B	~	Hand Switch	Instrumentation
HS-0700H	LCS For HOA S/S-EH-0700	~	Hand Switch	Instrumentation
MC-0800	Turbine Compressor CO2 Fire Suppression System No.1	~	CO2 System	Mechanical
MC-0808	Turbine Compressor CO2 Fire Suppression System No.1	~	CO2 System	Mechanical
PM-0700A	Motor For Comp. LO Pump-1	~	Electrical Motor	Electrical
PM-0700B	Motor For Comp. LO Pump-2	~	Electrical Motor	Electrical
SM-0700	Motor For Gas Tur. Driver No.1	~	Motor Starter	Electrical
T-0117	Lube Oil Tank Vent Sperator Train No.1	~	Tank	Mechanical
P ITR				

Status: Project Group Sort Order: Number Selected Node: ME-0200: Compressor Train No.1 Node ID: 6328 Node Type: Tagged Item [7] Node Status: ~ [0] Role: Administrators



Zenator Check



Factory Acceptance Tests, Inspection Release Notices and finally Material Receiving Inspections via VITRs

Global Falcon - Zenator Check: Detailed Engineering Design Phase

Data Source: SUPPORT3321-CB Project Groups Refresh Project Back Forward Views cbell

Number	Name	Status		
FM-0700A	Motor For Comp. Vent Train 2 Fan-1	~	Electrical Motor	Electrical
FM-0700B	Motor For Comp. Vent Train 2 Fan-2	~	Electrical Motor	Electrical
GT-0700	Gas Turbine Driver Train No.1	~	Gas Turbine Co...	Mechanical
HS-0700A	LCS For HOA S/S-FM-0700A	~	Hand Switch	Instrumentation
HS-0700B	LCS For HOA S/S-FM-0700B	~	Hand Switch	Instrumentation
HS-0700H	LCS For HOA S/S-EH-0700	~	Hand Switch	Instrumentation
MC-0800	Turbine Compressor CO2 Fire Suppression System No.1	~	CO2 System	Mechanical
MC-0808	Turbine Compressor CO2 Fire Suppression System No.1	~	CO2 System	Mechanical
PM-0700A	Motor For Comp. LO Pump-1	~	Electrical Motor	Electrical
PM-0700B	Motor For Comp. LO Pump-2	~	Electrical Motor	Electrical
SM-0700	Motor For Gas Tur. Driver No.1	~	Motor Starter	Electrical
T-0117	Lube Oil Tank Vent Separator Train No.1	~	Tank	Mechanical

P ITR

Number	Name	Status	Date Complet...	% Complete
MA-30-COM...	ME-0200: COMPRESSOR - PRESERVATION ACTIVIT...	Comple...	Jul 1 2015 12:0...	100
MA-30-COM...	ME-0200: COMPRESSOR - PRESERVATION ACTIVIT...	Not Sta...		

V ITR

Number	Name	Status	Date Complet...	% Complete
V01-FAT	ME-0200: Factory Acceptance Test	Comple...	May 1 2015 12:...	100
V02-IRN	ME-0200: Inspection Release Notice	Comple...	May 1 2015 12:...	100
V03-MRI	ME-0200: Material Receiving Inspection	Comple...	May 1 2015 12:...	100

Status: Project Group Sort Order: Number Selected Node: ME-0200: Compressor Train No.1 Node ID: 6328 Node Type: Tagged Item [7] Node Status: ~ [0] Role: Administrators



Zenator Check

Factory Acceptance Tests, Inspection Release Notices and finally Material Receiving Inspections via VITRs

The screenshot shows a Microsoft Word document titled 'ME-0200-V01-FAT_V2 [Read-Only] [Compatibility Mode]'. The document is a 'VENDOR FAT' form. A hand is pointing at the form. The form is enclosed in a red oval. The form contains the following information:

VENDOR FAT		V01-FAT Page 1 of 1	
Planned Date:		Actual Date:	
Project:	Project Life Cycle/Detailed Engineering Design Phase		
System:	Gas Compression/Gas Compression		
Tag:	ME-0200 / Compressor Train No.1		
P.O Number :	PO-201501-001	Type :	~
Manufacturer :	SOLAR(USA)	Model No :	
DESCRIPTION OF CHECKS		CHECK OK/ NON OK	
1. Vendor Checks			
2.			
3.			



Zenator Check



Factory Acceptance Tests, Inspection Release Notices and finally Material Receiving Inspections via VITRs

Templates

View Tag Type Matrix Tag Type Matrix Summary

Code: [] Template Type: Tagged Item ITRs Node Type: V ITR Discipline: ~ Filter

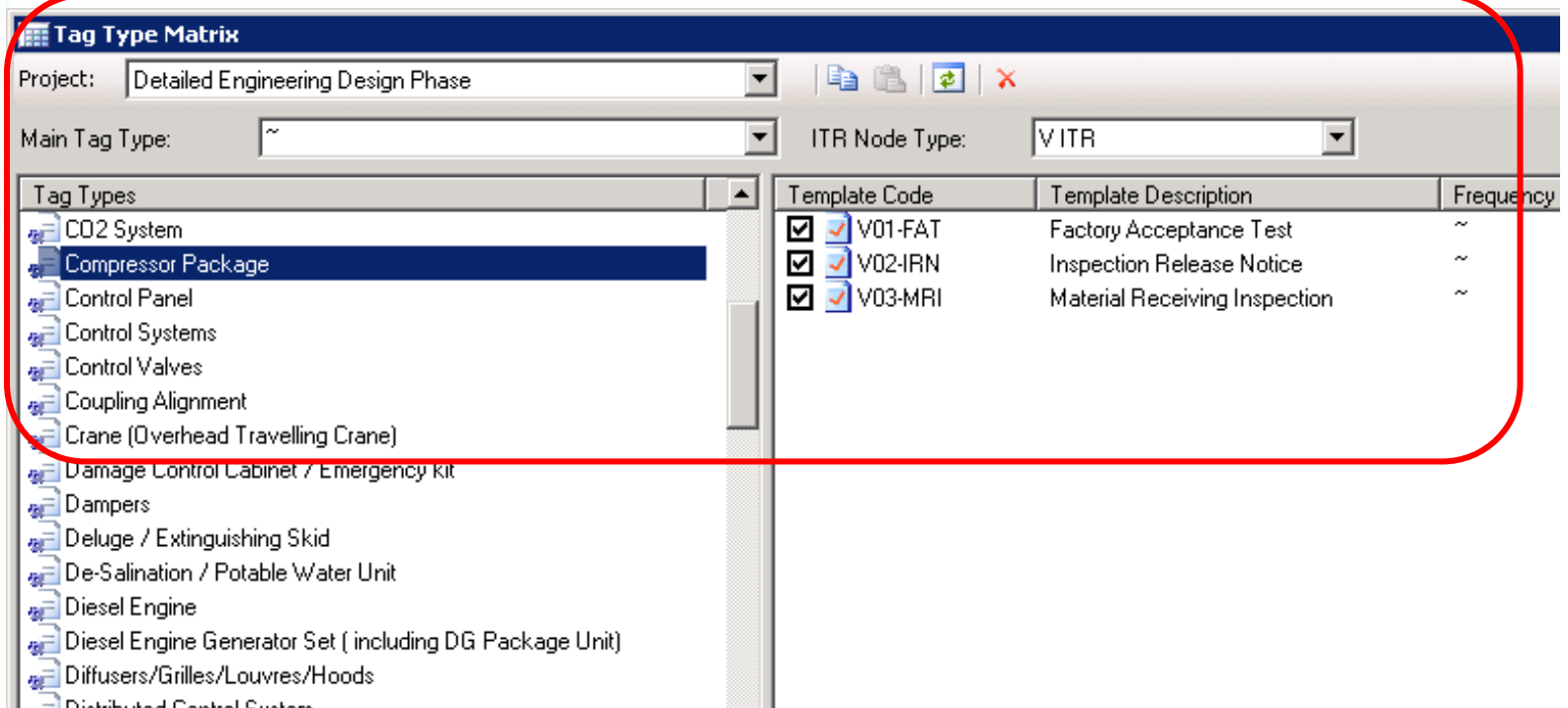
Code	Description	Template Type	Node Type	Discipline	Planned man ho...	Default Person	Created By	Date Cre
<input checked="" type="checkbox"/> V01-FAT	Factory Acceptance Test	Tagged Item ITRs	V ITR	Mechanical	~	~	cbell	17/01/20
<input checked="" type="checkbox"/> V02-IRN	Inspection Release Notice	Tagged Item ITRs	V ITR	Mechanical	~	~	cbell	17/01/20
<input checked="" type="checkbox"/> V03-MRI	Material Receiving Inspection	Tagged Item ITRs	V ITR	Mechanical	~	~	cbell	17/01/20

Help Select All Export Check Document Exists New Modify Delete Cancel

Record Count: 3

Zenator Check

Factory Acceptance Tests, Inspection Release Notices and finally Material Receiving Inspections via VITRs



Tag Type Matrix

Project: Detailed Engineering Design Phase

Main Tag Type: ~ ITR Node Type: VITR

Tag Types	Template Code	Template Description	Frequency
CO2 System	<input checked="" type="checkbox"/> V01-FAT	Factory Acceptance Test	~
Compressor Package	<input checked="" type="checkbox"/> V02-IRN	Inspection Release Notice	~
Control Panel	<input checked="" type="checkbox"/> V03-MRI	Material Receiving Inspection	~
Control Systems			
Control Valves			
Coupling Alignment			
Crane (Overhead Travelling Crane)			
Damage Control Cabinet / Emergency kit			
Dampers			
Deluge / Extinguishing Skid			
De-Salination / Potable Water Unit			
Diesel Engine			
Diesel Engine Generator Set (including DG Package Unit)			
Diffusers/Grilles/Louvres/Hoods			
Distributed Control System			



Zenator Check

Factory Acceptance Tests, Inspection Release Notices and finally Material Receiving Inspections via VITRs

The screenshot shows a Microsoft Word document titled 'ME-0200-V01-FAT_V2 [Read-Only] [Compatibility Mode]'. The document is a 'VENDOR FAT' form. A hand is pointing at the form. The form is enclosed in a red oval. The form contains the following information:

VENDOR FAT		V01-FAT Page 1 of 1	
Planned Date:		Actual Date:	
Project:	Project Life Cycle/Detailed Engineering Design Phase		
System:	Gas Compression/Gas Compression		
Tag:	ME-0200 / Compressor Train No.1		
P.O Number :	PO-201501-001	Type :	~
Manufacturer :	SOLAR(USA)	Model No :	
DESCRIPTION OF CHECKS		CHECK OK/ NON OK	
1. Vendor Checks			
2.			
3.			



Zenator Check



Carry over Punch List Items

The screenshot shows the Global Falcon software interface during a Zenator Check. The left pane displays a project tree with the following structure:

- MBL-2070: Turbine Hydraulic Oil Accumulator
 - ME-0200: Compressor Train No.1
 - C-0200: 1st Stage Compressor Train No.1**
 - 1000: Punch List Item carried over from Vendor
 - MA-06(001)
 - MA-06(002)
 - C-0210: 2nd Stage Compressor Train No.1
 - C-0215: 3rd Stage Compressor Train No.1
 - DM-0700: 120VDC Backup Lube Oil Pump Motor
 - DRV-0700: Lube Oil Backup DC Motor Starter
 - EH-0700: Heater For Turbine LO
 - F-0544: Gas Fuel Filter Train No.1
 - 1002: Punch List Item carried over from Vendor
 - FM-0453A: Motor For Compr. LO Cool Train 2
 - FM-0453B: Motor For Comp. LO Cool Train 2
 - FM-0700A: Motor For Comp. Vent Train 2 Far
 - FM-0700B: Motor For Comp. Vent Train 2 Far
 - 1015: Punch List Item carried over from Vendor
 - EA-06(001)
 - EA-06(002)
 - GT-0700: Gas Turbine Driver Train No.1
 - HS-0700A: LCS For HOA S/S-FM-0700A
 - HS-0700B: LCS For HOA S/S-FM-0700B
 - HS-0700H: LCS For HOA S/S-EH-0700
 - MC-0800: Turbine Compressor CO2 Fire Supp
 - MC-0808: Turbine Compressor CO2 Fire Supp
 - PM-0700A: Motor For Comp. LO Pump-1
 - PM-0700B: Motor For Comp. LO Pump-2
 - SM-0700: Motor For Gas Tur. Driver No.1
 - T-0117: Lube Oil Tank Vent Compressor Train

Number	Name	Status	Date Complet...	% Complete
P ITR				
MA-06(001)	C-0200: GAS/ AIR COMPRESSORS	Comple...	Jul 1 2015 12:0...	100
MA-06(002)	C-0200: GAS/ AIR COMPRESSORS	Not Sta...		

Number	Name	Status	Category	Status
1000	Punch List Item carried over from Vendor	Not Sta...	A	Open

Status: Project Group Sort Order: Number Selected Node: C-0200: 1st Stage Compressor Train No.1 Node ID: 6332 Node Type: Tagged Item [7] Node Status: ~ [0] Role:



Zenator Check



Detailed Preservations Tracking via PITRs

The screenshot displays the 'Global Falcon - Zenator Check: Detailed Engineering Design Phase' application. The left pane shows a hierarchical tree view of equipment, with 'C-0200: 1st Stage Compressor Train No.1' selected. The right pane shows a detailed view of the selected item, including a table of PITR (Preservation Item Tracking Record) items and a table of Punch List Items.

Number	Name	Status	Date Complet...	% Complete
MA-06(001)	C-0200: GAS/ AIR COMPRESSORS	Comple...	Jul 1 2015 12:0...	100
MA-06(002)	C-0200: GAS/ AIR COMPRESSORS	Not Sta...		

Number	Name	Status	Category	Status
1000	Punch List Item carried over from Vendor	Not Sta...	A	Open

Status: Project Group Sort Order: Number Selected Node: C-0200: 1st Stage Compressor Train No.1 Node ID: 6332 Node Type: Tagged Item [7] Node Status: ~ [0] Role:



Zenator Check



Detailed Preservations Tracking via PITRs

The screenshot shows the Zenator software interface. On the left, a list of maintenance templates is displayed, including MA-01 through MA-11. The 'Modify Template: MA-06' dialog is open in the center, showing configuration options for a specific template. A red circle highlights this dialog box. The dialog includes fields for Frequency Type (Monthly), Frequency (1.0), PITRs To Be Generated (1), Tag Status (Delivered), Start Date (24/Jan/2016), and End Date (24/Jan/2016). On the right, a table shows a list of preservation records with columns for Default Person, Created By, and Date. The records are sorted by date, with the most recent entries at the bottom.


Default Person	Created By	Date
Preservations T...	cbell	12/01
Preservations T...	cbell	12/01
Preservations T...	cbell	12/01
Preservations T...	cbell	12/01
Preservations T...	cbell	12/01
Preservations T...	cbell	12/01
Preservations T...	cbell	12/01
Preservations T...	cbell	12/01
Preservations T...	cbell	12/01
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Preservations T...	cbell	12/01
Preservations T...	cbell	12/01
Preservations T...	cbell	12/01
Preservations T...	cbell	12/01
Preservations T...	cbell	12/01
Preservations T...	cbell	12/01

Record Count: 55



Zenator Check

Detailed Preservations Tracking via PITRs Bulk Updates to the Tag Status



Bulk Tag Management

Filter | Custom Fields

Filter

Project: Detailed Engineering Design Phase Discipline: ~ Safety Critical

System Group: 01: Commissionable Main Tag Type: ~ Production Critical

System: 040: Gas Compression Tag Type: ~ Commissionable Item

Sub System: ~ Tag Status: ~

Sub Sub System: ~ Tag Module: ~

Tagged Item Group: ~ Tag Service: ~

Manufacturer: SOLAR(USA) From Tag: To Tag: Tag Location:

Filter Clear Select All

Tag Number	Tag Name	Parent Name	Parent Node Type	Discipline	Tag Type Main	Tag Type	Serial Number	Tag Status	Tag Modul
ME-0200	Compressor Trai...	Gas Compression	System	Mechanical	Mechanical Pac...	Compressor Pac...		Delivered	~
ME-0220	Compressor Trai...	Gas Compression	System	Mechanical	Mechanical Pac...	Compressor Pac...		Delivered	~
C-0200	1st Stage Compr...	Compressor Trai...	Tagged Item	Mechanical	Compressor	Gas Turbine Co...		Delivered	~
C-0210	2nd Stage Comp...	Compressor Trai...	Tagged Item	Mechanical	Compressor	Gas Turbine Co...		Delivered	~
C-0215	3rd Stage Compr...	Compressor Trai...	Tagged Item	Mechanical	Compressor	Gas Turbine Co...		Delivered	~
F-0544	Gas Fuel Filter T...	Compressor Trai...	Tagged Item	Mechanical	Filter	Fuel Filter		Delivered	~
GT-0700	Gas Turbine Dri...	Compressor Trai...	Tagged Item	Mechanical	Compressor	Gas Turbine Co...		Delivered	~
T-0117	Lube Oil Tank V...	Compressor Trai...	Tagged Item	Mechanical	Pressure Vessel ...	Tank		Delivered	~
DM-0700	120VDC Backu...	Compressor Trai...	Tagged Item	Electrical	Electrical Motor	Electrical Motor		Delivered	~
HS-0700H	LCS For HQA S7...	Compressor Trai...	Tagged Item	Instrumentation	Switch	Hand Switch		Delivered	~
HS-0700A	LCS For HQA S7...	Compressor Trai...	Tagged Item	Instrumentation	Switch	Hand Switch		Delivered	~
HS-0700B	LCS For HQA S7...	Compressor Trai...	Tagged Item	Instrumentation	Switch	Hand Switch		Delivered	~
PM-0700A	Motor For Comp...	Compressor Trai...	Tagged Item	Electrical	Electrical Motor	Electrical Motor		Delivered	~
PM-0700B	Motor For Comp...	Compressor Trai...	Tagged Item	Electrical	Electrical Motor	Electrical Motor		Delivered	~
SM-0700	Motor For Gas T...	Compressor Trai...	Tagged Item	Electrical	Electrical Motor	Motor Starter		Delivered	~
EH-0700	Heater For Turbi...	Compressor Trai...	Tagged Item	Electrical	Heater	L.O. Heater		Delivered	~

Record Count: 45 Selection Count: 9

Help Export Attach Modify Delete Cancel



Zenator Check



FEED, Detailed Engineering and Procurement Phase Summary

- Through this phase of the project further Tag imports will be processed as the Detailed Engineering continues to evolve, systemising the equipment data into Sub Systems and adding additional equipment such as piping lists, instrument lists and cable schedules.
- Follow up Tag imports will keep *Zenator* synchronised with the engineering design process and will continue to assist with the procurement tracking, Factory Acceptance Tests, Inspection Release Notices and arrival of equipment on site with Material Receiving Inspections.
- Carry over Punch List Items will continue to be captured.
- Equipment Preservation work will be scheduled.



Zenator Check



Construction Phase

During this phase *Zenator* will allow detailed tracking of:

- Continued Design Phase tracking (VITRs, PITRs, Punch Lists).
- Equipment now systemised to the Sub System or Sub Sub System level.
- The verification of Mechanical Completion using A Checksheets or AITRs for the inspection and testing of workmanship and materials to prove and validate the correct execution of fabrication and installation work.
- Specialized nodes Piping Test Packs and Electrical Circuits for the tracking of these specific inspections.
- System / Sub System Walkdowns to capture Punch List Items.
- Key Milestones such as Mechanical Completion (MC).
- Project specific certification process.



Zenator Check



Equipment now systemized to the Sub System or Sub Sub System level

Global Falcon - Zenator Check: Execution Phase - Construction

File Edit View Document Generation Maintenance Tools Administrator Help

Data Source: SUPPORT3321-CB Project Groups Refresh Project Back Forward Views cbell

- 01: Commissionable
 - 020: Communication
 - 020.101: Tannoy
 - COM-203C: CABLE
 - COM-203D: CABLE
 - COM-205C: CABLE
 - COM-205D: CABLE
 - EC-020-101-01: Electrical Circuit
 - CN-15: Sub System Mechanical Completion C
 - MC Status
 - 035: Production & Test Separators
 - 035.101: Frm BV to Sep #3 Outlet
 - 035.102: Frm Exist_ Seps to SDV2010
 - 040: Gas Compression
 - 040.101: Frm BV ds SDV2010 to XV2042-2043
 - 040.102: Compressor Bypass & Tie-in to Gas Filter
 - 040.103: Compressor & Gas Turbine Vendor Pack**
 - CBA-2020: Production Compressor
 - ME-0200: Compressor Train No.1
 - ME-0220: Compressor Train No.2
 - ME-0500: Turbine Generator Package No.1
 - ME-0510: Turbine Generator Package No.2
 - PAL-20790: CAN-2070 GAS GEN.FUEL GAS
 - PCV-20227: CBA-2020 PROD.COMP.PRIMA
 - CN-15: Sub System Mechanical Completion C
 - MC Status
 - 040.104: Compressor & GT Ancillaries
 - Engineering Design Status
 - 050: Fuel Gas
 - 050.101: Frm Exist_Mech_Hdr to SDV2050

Number	Name	Status	Tag Type	Discipline
Tagged Item				
Number	Name	Status	Tag Type	Discipline
CBA-2020	Production Compressor	~	Centrifugal (Comp)	Mechanical
ME-0200	Compressor Train No.1	~	Compressor Pac...	Mechanical
ME-0220	Compressor Train No.2	~	Compressor Pac...	Mechanical
ME-0500	Turbine Generator Package No.1	~	Turbine Generat...	Mechanical
ME-0510	Turbine Generator Package No.2	~	Turbine Generat...	Mechanical
PAL-20790	CAN-2070 GAS GEN.FUEL GAS SUPPLY	~	Power - Compre...	Instrumentation
PCV-20227	CBA-2020 PROD.COMP.PRIMARY SEAL VENT	~	Valve - Control	Instrumentation
WBS Element				
040.103-WB...	MC Status	~		
Certificate or Notice				
Number	Name	Status	Checksheet ...	Document Patt
CN-15	CN-15: Sub System Mechanical Completion Certificat	Not Sta...		E:\Zenator\All P...

Status: ~ Sort Order: Number Selected Node: 040.103: Compressor Gas Turbine Vendor Package Node ID: 1119 Node Type: Sub System [6] Node Status: ~ [0] Role:



Zenator Check



Verification of Mechanical Completion using A Checksheets or AITRs

Global Falcon - Zenator Check: Execution Phase - Construction

Data Source: SUPPORT3321-CB Project Groups Refresh Project Back Forward Views cbell

Number Name Status

P ITR

Number	Name	Status	Date Completed	% Complete
EA-06(001)	DM-0700: MOTOR BEARING PROTECTION	Completed	Jul 20 2015 12:00AM	100
EA-06(002)	DM-0700: MOTOR BEARING PROTECTION	Completed	Sep 1 2015 12:00AM	100
EA-06(003)	DM-0700: MOTOR BEARING PROTECTION	Completed	Oct 14 2015 12:00AM	100

A ITR

Number	Name	Status	Date Completed	% Complete
E-06A	DM-0700: LV / HV Motor	Not Started		


Status: ~ Sort Order: Number Selected Node: DM-0700: 120VDC Backup Lube Oil Pump Motor For Tc No.1 Node ID: 5687 Node Type: Tagged Item [7] Node Status: ~ [0] Role: ..



Zenator Check



Verification of Mechanical Completion using A Checksheets or AITRs



Templates

View | Tag Type Matrix | Tag Type Matrix Summary

Code: Template Type: Node Type: Discipline:

Code	Description	Template Type	Node Type	Discipline	Planned man ho...	Default Person	Created By	Date
L-05A	Miscellaneous Equipment	Tagged Item ITRs	A ITR	Mechanical	1	Construction Te...	cbell	12/01
M-01A	Pressure Vessel / Tank	Tagged Item ITRs	A ITR	Mechanical	1	Construction Te...	cbell	12/01
M-021A	Centrifugal Pump	Tagged Item ITRs	A ITR	Mechanical	1	Construction Te...	cbell	12/01
M-022A	Screw / Rotary / Positive Displaceme...	Tagged Item ITRs	A ITR	Mechanical	1	Construction Te...	cbell	12/01
M-023A	Dosing / Metering Pump	Tagged Item ITRs	A ITR	Mechanical	1	Construction Te...	cbell	12/01
M-024A	Submersible Pump	Tagged Item ITRs	A ITR	Mechanical	1	Construction Te...	cbell	12/01
M-02A	General Pump	Tagged Item ITRs	A ITR	Mechanical	1	Construction Te...	cbell	12/01
M-03A	Heat Exchanger / Cooler / Heater	Tagged Item ITRs	A ITR	Mechanical	1	Construction Te...	cbell	12/01
M-04A	Air Dryer	Tagged Item ITRs	A ITR	Mechanical	1	Construction Te...	cbell	12/01
M-05A	Filter / Strainer	Tagged Item ITRs	A ITR	Mechanical	1	Construction Te...	cbell	12/01
M-06A	De-Salination / Potable Water Unit	Tagged Item ITRs	A ITR	Mechanical	1	Construction Te...	cbell	12/01
M-07A	Diesel Engine	Tagged Item ITRs	A ITR	Mechanical	1	Construction Te...	cbell	12/01
M-08A	Coupling Alignment	Tagged Item ITRs	A ITR	Mechanical	1	Construction Te...	cbell	12/01
M-091A	Centrifugal Compressor	Tagged Item ITRs	A ITR	Mechanical	1	Construction Te...	cbell	12/01
M-092A	Reciprocating Compressor	Tagged Item ITRs	A ITR	Mechanical	1	Construction Te...	cbell	12/01
M-09A	Instrument Air Compressor	Tagged Item ITRs	A ITR	Mechanical	1	Construction Te...	cbell	12/01
M-10A	Gear Box Unit	Tagged Item ITRs	A ITR	Mechanical	1	Construction Te...	cbell	12/01
M-11A	Hoists (Manual / Power)	Tagged Item ITRs	A ITR	Mechanical	1	Construction Te...	cbell	12/01
M-12A	Crane (Overhead Travelling Crane)	Tagged Item ITRs	A ITR	Mechanical	1	Construction Te...	cbell	12/01
M-13A	Fan / Blower Unit	Tagged Item ITRs	A ITR	Mechanical	1	Construction Te...	cbell	12/01
M-14A	Lifeboat	Tagged Item ITRs	A ITR	Mechanical	1	Construction Te...	cbell	12/01
M-15A	Winch / Davit	Tagged Item ITRs	A ITR	Mechanical	1	Construction Te...	cbell	12/01
M-16A	Gas Turbine (including GT Generator)	Tagged Item ITRs	A ITR	Mechanical	1	Construction Te...	cbell	12/01
M-17A	Hypochlorite Generator Package	Tagged Item ITRs	A ITR	Mechanical	1	Construction Te...	cbell	12/01

Help | Select All | Export | Check Document Exists | New | Modify | Delete | Cancel

Record Count: 44

Zenator Check

Verification of Mechanical Completion using A Checksheets or AITRs

Tag Type Matrix

Project: Execution Phase - Construction

Main Tag Type: ~ ITR Node Type: A ITR

Tag Types	Template Code	Template Description
CCTV	<input type="checkbox"/> <input checked="" type="checkbox"/> M-04A	Air Dryer
Centrifugal (Comp)	<input type="checkbox"/> <input checked="" type="checkbox"/> M-05A	Filter / Strainer
Centrifugal (Pump)	<input type="checkbox"/> <input checked="" type="checkbox"/> M-06A	De-Salination / Potable Water Unit
Centrifugal Pump	<input type="checkbox"/> <input checked="" type="checkbox"/> M-07A	Diesel Engine
Centrifuge / Purifier Unit	<input type="checkbox"/> <input checked="" type="checkbox"/> M-08A	Coupling Alignment
Certified Equipment Checks	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> M-091A	Centrifugal Compressor
Chemical Cleaning	<input type="checkbox"/> <input checked="" type="checkbox"/> M-092A	Reciprocating Compressor
Closed Loop	<input type="checkbox"/> <input checked="" type="checkbox"/> M-09A	Instrument Air Compressor
CO2 System	<input type="checkbox"/> <input checked="" type="checkbox"/> M-10A	Gear Box Unit
Compressor Package	<input type="checkbox"/> <input checked="" type="checkbox"/> M-11A	Hoists (Manual / Power)
Control Panel	<input type="checkbox"/> <input checked="" type="checkbox"/> M-12A	Crane (Overhead Travelling Crane)
Control Systems	<input type="checkbox"/> <input checked="" type="checkbox"/> M-13A	Fan / Blower Unit
Control Valves	<input type="checkbox"/> <input checked="" type="checkbox"/> M-14A	Lifeboat
Coupling Alignment	<input type="checkbox"/> <input checked="" type="checkbox"/> M-15A	Wrench / Drill



Zenator Check



Piping Test Packs and Electrical Circuits

Global Falcon - Zenator Check: Execution Phase - Construction

Data Source: SUPPORT3321-CB | Project Groups | Refresh Project | Back | Forward | Views

Tree View:

- EC-020-101-01: Electrical Circuit
 - COM-203C: CABLE
 - COM-203D: CABLE
 - COM-205C: CABLE
 - COM-205D: CABLE
 - EC-001A
 - EC-020-101-01-EC-001A_V1
 - CIR-020-101-01-EC-001A_V1
- ON 15: Sub System Mechanical Completion
- MC Status
- 035: Production & Test Separators
- 040: Gas Compression
 - 040.101: Frn BV ds SDV2010 to XV2042-2043
 - 040.102: Compressor Bypass & Tie-in to Gas Filter
 - 10in-PG-AM-264-MD2: MBF-2010 --to--TRIM
 - 10in-PG-AM-285-ME2: NAP2900--to--TRIM
 - 18in-PG-A-202-MD2: 18"-PG-AM202-MD2--to--
 - 18in-PG-A-234-MD2: 18"-PG-A202-MD2--to--
 - 18in-PG-A-245-MD2: 18"-PG-2014-D2--to--18
 - 2in-PG-AM-293-MF1: 2"-PG-AM276-MD2--to--
 - CBA-2910: Seal Gas Booster Compressor
 - ESDV-2047: COMPRESSOR PRIMARY SEA
 - ESDY-2043-B: MBF-2040 OUTLET ESD / SE
 - ESDY-2047-A: PRIMARY SEAL GAS
 - ESDY-2047-B: PRIMARY SEAL GAS
 - NAP-2900: Seal Gas Tie-In Heater for CBA-20
 - TIC-2901: NAP-2900 FUEL GAS SUPERHEA
 - TP-040-102-01: Piping Test Pack**
 - 10in-PG-AM-264-MD2: MBF-2010 --to--TF
 - 10in-PG-AM-285-ME2: NAP2900--to--TRI
 - TP-001A
 - TP-005A
 - TP-007A
 - TP-040-102-01-TP-007A_V1

Table View:

Number	Name	Status	Tag Type	Discipline
Tagged Item				
Number	Name	Status	Tag Type	Discipline
10in-PG-AM...	MBF-2010 --to--TRIM	~	Pipe Spool	Piping
10in-PG-AM...	NAP2900--to--TRIM	~	Pipe Spool	Piping

Number	Name	Status	Date Completed	% Complete
TP-001A	TP-040-102-01: Piping Test Pack Acceptance	Not Started		
TP-005A	TP-040-102-01: Pressure Test and Flushing	Not Started		
TP-007A	TP-040-102-01: Re-Instatement / Witnessed	Not Started		

Status: ~ Sort Order: Number Selected Node: TP-040-102-01: Piping Test Pack Node ID: 4157 Node Type: Piping Test Pack [8] Node Status: ~ [0] Role: Administrators



Zenator Check

A Checksheets or AITRs Processing

Global Falcon - Zenator Check: Execution Phase - Construction

File Edit View Document Generation Maintenance Tools Administrator Help

Data Source: SUPPORT3321-CB Project Groups Refresh Project Back Forward Views cbell

040: Gas Compression

- 040.101: Firm BV ds SDV2010 to XV2042-2043
- 040.102: Compressor Bypass & Tie-in to Gas Filter Seps
- 10in-PG-AM-264-MD2: MBF-2010 --to--TRIM
- 10in-PG-AM-285-ME2: NAP2900--to--TRIM
- 18in-PG-A-202-MD2: 18"-PG-AM202-MD2--to--TRIM
- 18in-PG-A-234-MD2: 18"-PG-A202-MD2--to--TRIM
- 18in-PG-A-245-MD2: 18"-PG-2014-D2--to--18"-PG-A245-MD2
- 2in-PG-AM-293-MF1: 2"-PG-AM276-MD2--to--TRIM
- CBA-2910: Seal Gas Booster Compressor
- ESDV-2047: COMPRESSOR PRIMARY SEAL GAS
- I-021A
- IA-05-TY(001)
- IA-05-TY(002)
- ESDY-2043-B: MBF-2040 OUTLET ESD / SEQUENCE VALVE
- I-11A
- ESDY-2043-B-I-11A_V1
- IA-05-TY(001)
- IA-05-TY(002)
- ESDY-2047-A: PRIMARY SEAL GAS
- ESDY-2047-B: PRIMARY SEAL GAS
- NAP-2900: Seal Gas Trim Heater for CBA-2020 / Gas Separator
- TIC-2901: NAP-2900 FUEL GAS SUPERHEATER OUTLET
- TP-040-102-01: Piping Test Pack
- 10in-PG-AM-264-MD2: MBF-2010 --to--TRIM
- 10in-PG-AM-285-ME2: NAP2900--to--TRIM
- TP-001A
- TP-040-102-01-TP-001A_V1
- TP-005A
- TP-007A
- TP-040-102-01-TP-007A_V1
- TP-040-102-02: Piping Test Pack
- TP-040-102-03: Piping Test Pack
- CN-15: Sub System Mechanical Completion Certificate

Number	Name	Status	Tag Type	Discipline
WBS Element				
040.102-WB...	MC Status	~		
Tagged Item				
Number	Name	Status	Tag Type	Discipline
10in-PG-AM...	MBF-2010 --to--TRIM	~	Pipe Spool	Piping
10in-PG-AM...	NAP2900--to--TRIM	~	Pipe Spool	Piping
18in-PG-A-2...	18"-PG-AM202-MD2--to--18"-PG-A234-MD2	~	Pipe Spool	Piping
18in-PG-A-2...	18"-PG-A202-MD2--to--18"-PG-A245-MD2	~	Pipe Spool	Piping
18in-PG-A-2...	18"-PG-2014-D2--to--18"-PG-2016-D2	~	Pipe Spool	Piping
2in-PG-AM-2...	2"-PG-AM276-MD2--to--CBA-2910	~	Pipe Spool	Piping
CBA-2910	Seal Gas Booster Compressor	~	Centrifugal (Comp)	Mechanical
ESDV-2047	COMPRESSOR PRIMARY SEAL GAS	~	Valve - Isolation	Instrumentation
ESDY-2043-B	MBF-2040 OUTLET ESD / SEQUENCE VAL...	~	Valve - Solenoid	Instrumentation
ESDY-2047-A	PRIMARY SEAL GAS	~	Valve - Solenoid	Instrumentation
ESDY-2047-B	PRIMARY SEAL GAS	~	Valve - Solenoid	Instrumentation
NAP-2900	Seal Gas Trim Heater for CBA-2020 / Gas Se...	~	Heat Exchanger / H...	Mechanical
TIC-2901	NAP-2900 FUEL GAS SUPERHEATER OUT...	~	Distributed Control S...	Instrumentation
Certificate or Notice				
Number	Name	Status	Checksheet Tem...	Document Pa
CN-15	CN-15: Sub System Mechanical Completion C...	Not Started		E:\Zenator\All F
Piping Test Pack				
Number	Name	Status		
TP-040-102...	Piping Test Pack	~		
TP-040-102...	Piping Test Pack	~		
TP-040-102...	Piping Test Pack	~		

Status: ~ Sort Order: Number Selected Node: 040.102: Compressor Bypass Tie-in to Gas Filter Seps_ 5 Node ID: 1104 Node Type: Sub System [6] Node Status: ~ [0] Role: ...



Zenator Check



A Checksheets or AITRs Processing

Bulk ITR Management

Filter | Custom Fields

Filter Project: Execution Phase - Construction ITR Type: A ITR
 System Group: 01: Commissionable Status: ~
 System: 040: Gas Compression Resource: ~
 Sub System: ~ Start Date From: 24/01/2016 To: 24/01/2016
 Sub Sub System: ~ Finish Date From: 24/01/2016 To: 24/01/2016
 Tag Status: ~ Completed Date From: 24/01/2016 To: 24/01/2016
 Discipline: ~ Job Card no: Filter Clear Select All

ITR Name	Tag Number	Parent Name	Parent Node Type	Discipline	Template	ITR Type	ITR Status	% Complete	Start Date	Finish Date	Co
✓ L-05A	ZBE-2070	Gas Turbine Wa...	Tagged Item	Mechanical	L-05A	A ITR	Completed	100	~	~	21
✓ M-19A	ZBE-2072	Nitrogen Genera...	Tagged Item	Mechanical	M-19A	A ITR	Completed	100	~	~	21
✗ I-012A	ESDZLC-2011	ESDV-2011 CL...	Tagged Item	Instrumentation	I-012A	A ITR	Not Started	0	~	~	~
✓ I-03A	ESDZLC-2011	ESDV-2011 CL...	Tagged Item	Instrumentation	I-03A	A ITR	Completed	100	~	~	24
✗ I-012A	ESDZLC-20200	ESDV-20200 CL...	Tagged Item	Instrumentation	I-012A	A ITR	Not Started	0	~	~	~
✓ I-03A	ESDZLC-20200	ESDV-20200 CL...	Tagged Item	Instrumentation	I-03A	A ITR	Completed	100	~	~	24
✗ I-012A	ESDZLC-2040-A	ESDV-2040 CL...	Tagged Item	Instrumentation	I-012A	A ITR	Not Started	0	~	~	~
✓ I-03A	ESDZLC-2040-A	ESDV-2040 CL...	Tagged Item	Instrumentation	I-03A	A ITR	Completed	100	~	~	24
✗ I-012A	ESDZLC-2041	ESDV-2041 CL...	Tagged Item	Instrumentation	I-012A	A ITR	Not Started	0	~	~	~
✓ I-03A	ESDZLC-2041	ESDV-2041 CL...	Tagged Item	Instrumentation	I-03A	A ITR	Completed	100	~	~	24
✗ I-012A	PAHH-LL-20200	CBA-2020 PRO...	Tagged Item	Instrumentation	I-012A	A ITR	Not Started	0	~	~	~
✓ I-03A	PAHH-LL-20200	CBA-2020 PRO...	Tagged Item	Instrumentation	I-03A	A ITR	Completed	100	~	~	24
✗ I-012A	PAHH-LL-20207	CBA-2020 PRO...	Tagged Item	Instrumentation	I-012A	A ITR	Not Started	0	~	~	~
✓ I-03A	PAHH-LL-20207	CBA-2020 PRO...	Tagged Item	Instrumentation	I-03A	A ITR	Completed	100	~	~	24
✗ I-012A	PAHL-20201	CBA-2020 PRO...	Tagged Item	Instrumentation	I-012A	A ITR	Not Started	0	~	~	~
✓ I-03A	PAHL-20201	CBA-2020 PRO...	Tagged Item	Instrumentation	I-03A	A ITR	Completed	100	~	~	24
✗ I-012A	PAHL-20206	CBA-2020 PRO...	Tagged Item	Instrumentation	I-012A	A ITR	Not Started	0	~	~	~
✓ I-03A	PAHL-20206	CBA-2020 PRO...	Tagged Item	Instrumentation	I-03A	A ITR	Completed	100	~	~	24
✗ I-012A	PDAH-20204	CBA-2020 PRO...	Tagged Item	Instrumentation	I-012A	A ITR	Not Started	0	~	~	~

Help Export Attach Generate Modify Delete Cancel

Record Count: 217 Selection Count: 0



Zenator Check

A Checksheets or AITRs Processing

The screenshot shows the 'Bulk Document Management' application window. A hand is pointing at the interface. Several elements are highlighted with red boxes:

- Toolbar:** A red box highlights the toolbar at the top left, containing icons for file operations like 'Open', 'Save', 'Print', 'Delete', and 'Refresh'.
- Filter Panel:** A red box highlights the 'Filter' panel on the right side, which lists document types with checkboxes: '040: Gas Compression', 'AITR', 'Instrument Loop ITR', and 'Piping Test Pack ITR'. The 'AITR' checkbox is checked.
- Document List:** A table of documents is displayed with columns for 'Document Ref', 'Date Added or ...', 'Date Printed', 'File Path', and 'Version'. The first few rows are checked.
- View Options:** A red box highlights the 'View' section at the bottom, which includes radio buttons for 'Never Printed', 'Printed', and 'All', and checkboxes for 'Current Version', 'Check Document Exists', and 'Print Associated Documents'.

Document Ref	Date Added or ...	Date Printed	File Path	Version
<input checked="" type="checkbox"/> CBA-2020-M-091A_V1	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.103\CBA-2...	1
<input checked="" type="checkbox"/> CBA-2910-M-091A_V1	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.102\CBA-2...	1
<input checked="" type="checkbox"/> RO-2010-I-022A_V1	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.101\RO-20...	1
<input checked="" type="checkbox"/> RO-20221-I-022A_V1	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.104\RO-20...	1
<input checked="" type="checkbox"/> RO-20222-I-022A_V1	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.104\RO-20...	1
<input checked="" type="checkbox"/> RO-20223-I-022A_V1	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.104\RO-20...	1
<input type="checkbox"/> RO-20224-I-022A_V1	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.104\RO-20...	1
<input type="checkbox"/> RO-2041-I-022A_V1	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.101\RO-20...	1
<input checked="" type="checkbox"/> FI-20221-I-012A_V1	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.104\FI-202...	1
<input checked="" type="checkbox"/> FI-20222-I-012A_V1	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.104\FI-202...	1
<input type="checkbox"/> FI-20223-I-012A_V1	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.104\FI-202...	1
<input type="checkbox"/> FI-20224-I-012A_V1	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.104\FI-202...	1
<input type="checkbox"/> FI-20225-I-012A_V1	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.104\FI-202...	1
<input type="checkbox"/> FI-20228-I-012A_V1	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.104\FI-202...	1
<input type="checkbox"/> FI-20760-I-012A_V1	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.104\FI-207...	1
<input type="checkbox"/> FI-20761-I-012A_V1	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.104\FI-207...	1
<input type="checkbox"/> FI-20762-I-012A_V1	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.104\FI-207...	1
<input type="checkbox"/> AAP-2075-M-03A_V1	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.104\AAP_...	1
<input type="checkbox"/> HBE-2071-M-03A_V1	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.104\HBE-2...	1
<input type="checkbox"/> HBG-2030A-B-M-03...	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.101\HBG-2...	1
<input type="checkbox"/> NAP-2900-M-03A_V1	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.102\NAP-2...	1
<input type="checkbox"/> ZBE-2072-M-19A_V1	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.104\ZBE-2...	1
<input type="checkbox"/> FC-20740-A-I-012A_...	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.104\FC-20...	1
<input type="checkbox"/> FC-20740-B-I-012A_...	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.104\FC-20...	1
<input type="checkbox"/> FC-20740-C-I-012A_...	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.104\FC-20...	1
<input type="checkbox"/> PDT-20743-I-06A_V1	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.104\PDT-2...	1
<input type="checkbox"/> PDT-20744-I-06A_V1	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.104\PDT-2...	1
<input type="checkbox"/> PDT-20745-I-06A_V1	09/12/2015 09:58		E:\Zenator\SUPPORT\3321-CB\Check\ITRs\PLC01\03\01\040\040.104\PDT-2...	1

Document Count: 223 Selection Count: 7



Zenator Check



Monitoring Key Milestones such as Mechanical Completion (MC)

The screenshot displays the 'Global Falcon - Zenator Check: Execution Phase - Construction' window. The interface includes a menu bar (File, Edit, View, Document Generation, Maintenance, Tools, Administrator, Help), a toolbar with options like 'Data Source', 'Project Groups', 'Refresh Project', 'Back', 'Forward', and 'Views', and a main workspace divided into a tree view and an activity table.

Tree View:

- 040: Gas Compression
 - 040.101: Frn BV ds SDV2010 to XV2042-20
 - 040.102: Compressor Bypass & Tie-in to Gas
 - 10in-PG-AM-264-MD2: MBF-2010 --to--T
 - 10in-PG-AM-285-ME2: NAP2900--to--TR
 - 18in-PG-A-202-MD2: 18"-PG-AM202-MC
 - 18in-PG-A-234-MD2: 18"-PG-A202-MD2
 - 18in-PG-A-245-MD2: 18"-PG-2014-D2-t
 - 2in-PG-AM-293-MF1: 2"-PG-AM276-MD2
 - CBA-2910: Seal Gas Booster Compresso
 - ESDV-2047: COMPRESSOR PRIMARY
 - ESDY-2043-B: MBF-2040 OUTLET ESD
 - ESDY-2047-A: PRIMARY SEAL GAS
 - ESDY-2047-B: PRIMARY SEAL GAS
 - NAP-2900: Seal Gas Trim Heater for CB
 - TIC-2901: NAP-2900 FUEL GAS SUPEF
 - TP-040-102-01: Piping Test Pack
 - TP-040-102-02: Piping Test Pack
 - TP-040-102-03: Piping Test Pack
 - 040.102-WBS-MC-Status
 - MC Status
 - AITR Status
 - Piping Test Pack Status
 - PLI Cat A Status
 - Bulk AITR Status
 - 040.103: Compressor & Gas Turbine Vendor
 - 040.104: Compressor & GT Ancillaries
 - Engineering Design Status
 - 050: Fuel Gas

Activity Table:

Number	Name	Status
Activity		
040.102-WBS-MC-ACT01	AITR Status	~
040.102-WBS-MC-ACT02	Piping Test Pack Status	~
040.102-WBS-MC-ACT03	PLI Cat A Status	~
040.102-WBS-MC-ACT04	Bulk AITR Status	~

Status Bar: Status: ~ Sort Order: Number Selected Node: MC Status Node ID: 2634 Node Type: WBS Element [40] Node Status: ~ [0] Role: Administrators



Zenator Check



Monitoring Key Milestones such as Mechanical Completion (MC)

The screenshot shows the Zenator Check software interface. The left pane displays a tree view of project activities, including '040: Gas Compression' and '040.102: Compr'. A hand is pointing at the tree view. The right pane shows the 'Activity' dialog box for 'AITR Status'. The dialog box has a red circle around the 'Status' section, which contains the following information:

Status	
Number of Tags Involved:	13
Number of Tasks Involved:	8
Number of Completed Tasks:	5
Target Start Date:	01 Nov 2015
Target Finish Date:	14 Nov 2015

The status bar at the bottom of the window displays: Status: ~ Sort Order: Number Selected Node: AITR Status Node ID: 2635 Node Type: Activity [41] Node Status: ~ [0] Role: Administrators



Zenator Check



Monitoring Key Milestones such as Mechanical Completion (MC)

The screenshot displays the Zenator software interface for monitoring key milestones. The main window is titled "Global Falcon - Zenator Check: Execution Phase - Construction". The left sidebar shows a project tree with nodes like "040: Gas Compression", "040.101: Frm BV", "040.102: Compr", and "050: Fuel Gas". The "MC Status" node is selected. A "WBS Element" dialog box is open, showing details for the selected element. The dialog has two tabs: "WBS Element" and "Custom Fields". The "WBS Element" tab is active, showing the following fields:

- Description: MC Status
- Number: 040.102-WBS-MC
- Priority State: ~
- Status: (empty)
- Number of Tags Involved: 13
- Number of Tasks Involved: 19
- Number of Completed Tasks: 8
- Target Start Date: 01 Nov 2015
- Target Finish Date: 14 Dec 2015


The "Status" field and the summary statistics (Number of Tags Involved, Number of Tasks Involved, Number of Completed Tasks) are highlighted with a red rounded rectangle. The dialog also has "Help", "OK", "Cancel", and "Apply" buttons. At the bottom of the window, the status bar shows: "Status: ~ Sort Order: Number Selected Node: MC Status Node ID: 2634 Node Type: WBS Element [40] Node Status: ~ [0] Role: Administrators".



Zenator Check



Project specific Certification Process



Templates

View | Tag Type Matrix | Tag Type Matrix Summary

Code: Template Type: Certificates and Notices Node Type: ~ Discipline: ~ Filter

Code	Description	Template Type	Node Type	Discipline	Planned man ho...	Default Person	Created By	Date Created
CN-01	Acceptance Notice	Certificates and ...	Certificate or Notice	~	1	~	cbell	18/12/2015 1
CN-02	Acceptance Certificate	Certificates and ...	Certificate or Notice	~	1	~	Falcon Default ...	04/02/2015 1
CN-03	Facilities Asset Assignment Notice	Certificates and ...	Certificate or Notice	~	1	~	cbell	18/12/2015 1
CN-04	Facilities Asset Assignment Certificate	Certificates and ...	Certificate or Notice	~	1	~	cbell	18/12/2015 1
CN-05	Facility Start-Up Readiness Certificate	Certificates and ...	Certificate or Notice	~	1	~	cbell	18/12/2015 1
CN-06	Facility Mechanical Completion Certifi...	Certificates and ...	Certificate or Notice	~	1	~	cbell	18/12/2015 1
CN-07	Final Turnover Notice	Certificates and ...	Certificate or Notice	~	1	~	cbell	18/12/2015 1
CN-08	Final Turnover Certificate	Certificates and ...	Certificate or Notice	~	1	~	cbell	18/12/2015 1
CN-09	Partial Turnover Notice	Certificates and ...	Certificate or Notice	~	1	~	cbell	18/12/2015 1
CN-10	Partial Turnover Certificate	Certificates and ...	Certificate or Notice	~	1	~	Falcon Default ...	04/02/2015 1
CN-11	System Start-Up Readiness Certificate	Certificates and ...	Certificate or Notice	~	1	~	cbell	18/12/2015 1
CN-12	System Commissioning Completion Ce...	Certificates and ...	Certificate or Notice	~	1	~	Falcon Default ...	04/02/2015 1
CN-13	System Function Testing Completion ...	Certificates and ...	Certificate or Notice	~	1	~	Falcon Default ...	04/02/2015 1
CN-14	System Mechanical Completion Certifi...	Certificates and ...	Certificate or Notice	~	1	~	cbell	18/12/2015 1
CN-15	Sub System Mechanical Completion C...	Certificates and ...	Certificate or Notice	~	1	~	cbell	18/12/2015 1
CN-16	Discipline Mechanical Completion Cer...	Certificates and ...	Certificate or Notice	~	1	~	cbell	18/12/2015 1
CN-17	Milestone Completion Certificate	Certificates and ...	Certificate or Notice	~	0	Alan Mills	amills	22/01/2016 1


Help | Select All | Export | Check Document Exists | New | Modify | Delete | Cancel


Record Count: 17



Zenator Check

Project specific Certification Process



Certificates and Notices			
	Mechanical Completion Certificate	CN-15 Page 1 of 1	
			
Date:	24-Jan-16		
Unique ID:			
Project No/Location:	Project Number -		
Project Description:	Project Group Name - Project Name		
	<input type="checkbox"/> Discipline <input checked="" type="checkbox"/> Sub-System <input type="checkbox"/> System		
System:	System Number	Hold Point:	
<p>This certificate acknowledges that, except as set forth below, all work for this package is mechanically complete as of the above date and the package is ready to begin commissioning activities. Upon acceptance and sign-off of this certificate, this package will be under the supervision of Commissioning.</p> <p>All following items must be verified and checked off, any exceptions must be documented below:</p>			

Page: 1 of 1 Words: 224 English (U.S.) 100%



Zenator Check



Project specific Certification Process

Lookup Table Maintenance: Certificate Category

Falcon Application: ~ Lookup Table: Certificate Category

Name	Is Discipline Dependent	Sequence	Date Updated	Updated By
DMCC - Discipline Mechanical Completion Certificate	True	1	17/01/2016 04:...	cbell
SSMCC - Sub System Mechanical Completion Certificate	False	2	17/01/2016 04:...	cbell
SMCC - System Mechanical Completion Certificate	False	3	04/02/2015 13:...	Base Default
DPCC - PreCommissioning Completion Certificate	False	4	17/01/2016 04:...	cbell
RFCC - Ready for Commissioning Certificate	False	5	04/02/2015 13:...	Base Default
PSTN - Partial System Turnover Notice	False	6	04/02/2015 13:...	Base Default
STN - System Turnover Notice	False	7	04/02/2015 13:...	Base Default
FTN - Final Turnover Notice	False	8	04/02/2015 13:...	Base Default

Help Select All New Modify Delete Cancel

Record Count: 8 Selection Count: 0



Zenator Check



Project specific Certification Process

Global Falcon - Zenator Check: Execution Phase - Commissioning

Data Source: SUPPORT3321-CB | Project Groups | Refresh Project | Back | Forward | Views

01: Commissionable

- 020: Communication
- 035: Production & Test Separators
 - 035.101: Frm BV to Sep #3 Outlet
 - 035.102: Frm Exist_Seps to SDV2010
- 040: Gas Compression
 - 040.101: Frm BV ds SDV2010 to XV2042-20
 - 040.102: Compressor Bypass & Tie-in to Gas
 - 040.103: Compressor & Gas Turbine Vendor Package**
 - CBA-2020: Production Compressor
 - ME-0200: Compressor Train No.1
 - ME-0220: Compressor Train No.2
 - ME-0500: Turbine Generator Package No.1
 - ME-0510: Turbine Generator Package No.2
 - PAL-20790: CAN-2070 GAS GEN.FUEL
 - PCV-20227: CBA-2020 PROD.COMP.PF
 - CN-12: System Commissioning Completion Certificate
 - CN7301-CN-12_V1
 - CN-15: Sub System Mechanical Completion Certificate
 - CN3139-CN-15_V1
 - CN3139-CN-15_V1
 - 040.104: Compressor & GT Ancillaries
- 050: Fuel Gas
- 055: Condensate Coalescer
- 060: Closed Drains
- 065: Open Drains
- 085: Controls

Number	Name	Status	
WBS Element			
040.103-WBS-MC	MC Status	~	
040.103-WBS-SC	SC Status	~	
Tagged Item			
Number	Name	Status	Tag Type
CBA-2020	Production Compressor	~	Centrifugal (Comp)
ME-0200	Compressor Train No.1	~	Compressor Package
ME-0220	Compressor Train No.2	~	Compressor Package
ME-0500	Turbine Generator Package No.1	~	Turbine Generator P...
ME-0510	Turbine Generator Package No.2	~	Turbine Generator P...
PAL-20790	CAN-2070 GAS GEN.FUEL GAS SUPPLY	~	Power - Compressor ...
PCV-20227	CBA-2020 PROD.COMP.PRIMARY SEAL VE...	~	Valve - Control

Certificate or Notice			
Number	Name	Status	Checksheet Tem...
CN-12	CN-12: System Commissioning Completion Cer...	Not Started	
CN-15	CN-15: Sub System Mechanical Completion C...	Completed	

Status: ~ Sort Order: Number Selected Node: 040.103: Compressor Gas Turbine Vendor Package Node ID: 1388 Node Type: Sub System [6] Node Status: ~ [0] Role: ..



Zenator Check



Project specific Certification Process

Global Falcon - Zenator Check: Execution Phase - Commissioning

Data Source: SUPPORT3321-CB Project Groups Refresh Project Back Forward Views

020: Communication
035: Production & Test Separators
035.101: Frm BV to Sep #3 Outlet
035.102: Frm Exist Seps to SDV2010
040: Gas Compre
040.101: Frm
040.102: Cor
040.103: Cor
CBA-202
ME-0200
ME-0220
ME-0500
ME-0510
PAL-207
PCV-202
CN-12: S
CN7
CN-15: S
CN3
MC Statu
SC Statu
040.104: Cor
050: Fuel Gas
055: Condensate
060: Closed Drains
065: Open Drains
085: Controls
090: Chemical Storage and Injection

Modify Certificate or Notice: CN-15: Sub System Mechanical Completion Certificat

Certificate or Notice Custom Fields

Name: CN-15: Sub System Mechanical Completion Certificat Endorsed By: Alan Mills
Type: Certificate Date Endorsed: 11 Jan 2016
Certificate Category: SSMCC - Sub System Mechanical Completion Ce Contractor: ~
Discipline: ~ Date Appointed: ~
Template: CN-15: Sub System Mechanical Completion Certif Client: ~
Issued By: Robert Sloan Date Appointed: ~
Date Issued: 17 Nov 2015 Government and Regulatory Affairs

Help Generate OK Cancel Apply

Status: ~ Sort Order: Number Selected Node: CN-15: Sub System Mechanical Completion Certificat Node ID: 3139 Node Type: Certificate or Notice [13] Node Status: ..



Zenator Check



Other Tracking and Data Manipulation

- Other manipulation of data such as splitting out or merging Systems, Sub Systems or Sub Sub Systems can be achieved through cut / paste or drag & drop for small numbers of records or via a Tag Export to Excel and reimport using the Tag Import in Zenator Launch.
- *Zenator* can also monitor a number of other aspects of the Systems Commissioning process including:
 - MOCs via *Zenator's* Change Management Node.
 - Site Queries via *Zenator's* Change Management Node.
 - Inhibits and Isolations.



Zenator Check



Construction Phase Summary

- Through this phase of the project further Tag imports will be processed as the Detailed Engineering process reaches its completion.
- Procurement tracking via Factory Acceptance Tests, Inspection Release Notices and arrival of equipment on site with Material Receiving Inspections should also conclude.
- Equipment Preservation work will continue to be scheduled and carried out through the Tag life cycle for statuses such as “Delivered” and “Installed”.
- Punch List Items will continue to be captured including key Walkdown Milestones as Systems / Sub Systems approach Mechanical Completion.
- Detailed A Checksheet assignment via the Tag Type Matrix and progress tracking will continue for each System / Sub System as they approach Mechanical Completion.
- Certificate & Notice assignment and tracking to Sub Systems and Systems as they approach Mechanical Completion.



Zenator Check



Commissioning Phase

During this phase *Zenator* will allow detailed tracking of:

- Continued Construction Phase tracking (AITRs, PITRs, Punch Lists).
- Pre-commissioning (Static Commissioning) and Commissioning (Dynamic Commissioning).
- Static Commissioning activities through B Checksheets or BITRs.
- Dynamic Commissioning activities through C Checksheets or CITRs.
- Walkdown Capture for the Recording and Clearing of Punch List Items.



Zenator Check



Static Commissioning activities through B Checksheets or BITRs

Global Falcon - Zenator Check: Execution Phase - Commissioning

Data Source: SUPPORT3321-CB Project Groups Refresh Project Back Forward Views

040.102: Compressor Bypass & Tie-in to Gas

- 10in-PG-AM-264-MD2: MBF-2010 -to--T
- 10in-PG-AM-285-ME2: NAP2900 -to--TR
- 18in-PG-A-202-MD2: 18"-PG-AM202-MC
- 18in-PG-A-234-MD2: 18"-PG-A202-MD2
- 18in-PG-A-245-MD2: 18"-PG-2014-D2-b
- 2in-PG-AM-293-MFT: 2"-PG-AM276-MD2
- CBA-2910: Seal Gas Booster Compressor**
 - M-091A
 - M-091B
- ESDY-2047: COMPRESSOR PRIMARY
- ESDY-2043-B: MBF-2040 OUTLET ESD
- ESDY-2047-A: PRIMARY SEAL GAS
- ESDY-2047-B: PRIMARY SEAL GAS
- NAP-2900: Seal Gas Trim Heater for CBA
- TIC-2901: NAP-2900 FUEL GAS SUPEF
- TP-040-102-01: Piping Test Pack
- TP-040-102-02: Piping Test Pack
- TP-040-102-03: Piping Test Pack
- CN-12: System Commissioning Complete
- CN-15: Sub System Mechanical Complete
- DC-03C: Dynamic Commissioning - Gas C
- MC Status
- SC Status
- 040.103: Compressor & Gas Turbine Vendor
 - CBA-2020: Production Compressor**
 - M-091A
 - M-091B
 - ME-0200: Compressor Train No.1
 - ME-0220: Compressor Train No.2
 - ME-0500: Turbine Generator Package N
 - ME-0510: Turbine Generator Package M
 - PAI -20790: CAN-2070 GAS GFN FLIF

Number	Name	Status	Date Completed
A ITR			
M-091A	CBA-2020: Centrifugal Compressor	Completed	Nov 24 2015 12:00...
B ITR			
M-091B	CBA-2020: Centrifugal Compressor	Not Started	


Status: ~ Sort Order: Number Selected Node: CBA-2020: Production Compressor Node ID: 1389 Node Type: Tagged Item [7] Node Status: ~ [0] Role: Administrators



Zenator Check



Static Commissioning activities through B Checksheets or BITRs



Templates

View | Tag Type Matrix | Tag Type Matrix Summary

Code: Template Type: Node Type: Discipline:

Code	Description	Template Type	Node Type	Discipline	Planned man ho...	Default Person	Created By	Date
M-011B	Vessel / Tank Closure Certificate	Tagged Item ITRs	B ITR	Mechanical	1	Systems Comple...	cbell	12/01
M-01B	Pressure Vessel / Tank	Tagged Item ITRs	B ITR	Mechanical	1	Systems Comple...	cbell	12/01
M-021B	Centrifugal Pump	Tagged Item ITRs	B ITR	Mechanical	1	Systems Comple...	cbell	12/01
M-022B	Screw Type / Rotary / Positive Displa...	Tagged Item ITRs	B ITR	Mechanical	1	Systems Comple...	cbell	12/01
M-023B	Dosing / Metering Pump	Tagged Item ITRs	B ITR	Mechanical	1	Systems Comple...	cbell	12/01
M-024B	Submersible Pump	Tagged Item ITRs	B ITR	Mechanical	1	Systems Comple...	cbell	12/01
M-02B	General Pump	Tagged Item ITRs	B ITR	Mechanical	1	Systems Comple...	cbell	12/01
M-03B	Heater	Tagged Item ITRs	B ITR	Mechanical	1	Systems Comple...	cbell	12/01
M-04B	Instrument Air Dryer	Tagged Item ITRs	B ITR	Mechanical	1	Systems Comple...	cbell	12/01
M-05B	Filter / Strainer	Tagged Item ITRs	B ITR	Mechanical	1	Systems Comple...	cbell	12/01
M-061B	Pre-Commissioning: Desalination Unit	Tagged Item ITRs	B ITR	Mechanical	1	Systems Comple...	cbell	12/01
M-062B	Portable Water Unit	Tagged Item ITRs	B ITR	Mechanical	1	Systems Comple...	cbell	12/01
M-07B	Diesel Engine Generator Set (includin...	Tagged Item ITRs	B ITR	Mechanical	1	Systems Comple...	cbell	12/01
M-08B	Coupling Alignment (HOT Alignment C...	Tagged Item ITRs	B ITR	Mechanical	1	Systems Comple...	cbell	12/01
M-091B	Centrifugal Compressor	Tagged Item ITRs	B ITR	Mechanical	1	Systems Comple...	cbell	12/01
M-092B	Reciprocating Compressor	Tagged Item ITRs	B ITR	Mechanical	1	Systems Comple...	cbell	12/01
M-09B	Instrument Air Compressor	Tagged Item ITRs	B ITR	Mechanical	1	Systems Comple...	cbell	12/01
M-10B	Gearbox Unit	Tagged Item ITRs	B ITR	Mechanical	1	Systems Comple...	cbell	12/01
M-111B	Manual Hoist	Tagged Item ITRs	B ITR	Mechanical	1	Systems Comple...	cbell	12/01
M-112B	Pre-Commissioning: Power Hoist	Tagged Item ITRs	B ITR	Mechanical	1	Systems Comple...	cbell	12/01
M-12B	Crane (Overhead Travelling Crane)	Tagged Item ITRs	B ITR	Mechanical	1	Systems Comple...	cbell	12/01
M-13B	Fan / Blower Unit (Including Air-Coole...	Tagged Item ITRs	B ITR	Mechanical	1	Systems Comple...	cbell	12/01
M-14B	Lifeboat Davit	Tagged Item ITRs	B ITR	Mechanical	1	Systems Comple...	cbell	12/01
M-15B	Lifeboat Winch	Tagged Item ITRs	B ITR	Mechanical	1	Systems Comple...	cbell	12/01

Help | Select All | Export | Check Document Exists | New | Modify | Delete | Cancel


Record Count: 43



Zenator Check



Static Commissioning activities through B Checksheets or BITRs



Tag Type Matrix

Project: Execution Phase - Commissioning

Main Tag Type: ~ ITR Node Type: B ITR

Tag Types	Template Code	Template Description
Cabin and Room Equipment	<input type="checkbox"/> M-05B	Filter / Strainer
Cable Racking / Tray / Transits	<input type="checkbox"/> M-061B	Pre-Commissioning: Desalination L
CCTV	<input type="checkbox"/> M-062B	Portable Water Unit
Centrifugal (Comp)	<input type="checkbox"/> M-07B	Diesel Engine Generator Set (incl
Centrifugal (Pump)	<input type="checkbox"/> M-08B	Coupling Alignment (HOT Alignme
Centrifugal Pump	<input checked="" type="checkbox"/> M-091B	Centrifugal Compressor
Centrifuge / Purifier Unit	<input type="checkbox"/> M-092B	Reciprocating Compressor
Certified Equipment Checks	<input type="checkbox"/> M-09B	Instrument Air Compressor
Chemical Cleaning	<input type="checkbox"/> M-10B	Gearbox Unit
Closed Loop	<input type="checkbox"/> M-111B	Manual Hoist
CO2 System	<input type="checkbox"/> M-112B	Pre-Commissioning: Power Hoist
Compressor Package	<input type="checkbox"/> M-12B	Crane (Overhead Travelling Crane



Zenator Check



Piping Test Packs and Instrument Loops

Global Falcon - Zenator Check: Execution Phase - Commissioning

Data Source: SUPPORT3321-CB Project Groups Refresh Project Back Forward Views cbell

Number	Name	Status	Tag Type	Discipline
Tagged Item				
IDBC-HOA-438002A	Hand Selector Switch (Hand-Off-Auto)	~	Hand Off Auto Switch	Instrumentatio
IDBC-MAU438002A-01	Motor Indicator Run/Stop	~	Motor Indicator Run...	Instrumentatio
IDBC-MID438002A-01A	Motor Indicator HOA	~	Motor Indicator HOA	Instrumentatio
IDBC-MIR438002A-01	Motor Indicator Run	~	Motor Indicator Run	Instrumentatio

Number	Name	Status	Date Completed	% Complete
L-007B	Motor Indicator Run Stop: Motor Control and ...	Not Started		0

Instrument Loop ITR

Status: ~ Sort Order: Number Selected Node: Motor Indicator Run Stop: IDBC_M438002A-01 Node ID: 7307 Node Type: Instrument Loop [9] Node Status: ~ [0] Role: Administrators



Zenator Check



Dynamic Commissioning activities through C Checksheets or CITRs

Global Falcon - Zenator Check: Execution Phase - Commissioning

Data Source: SUPPORT3321-CB

Project Groups Refresh Project Back Forward Views

040.102: Compressor Bypass & Tie-in to Gas Filter Seps

- 10in-PG-AM-264-MD2: MBF-2010 -to--TRIM
- 10in-PG-AM-285-ME2: NAP2900 -to--TRIM
- 18in-PG-A-202-MD2: 18"-PG-AM202-MD2--to--18"-PG
- 18in-PG-A-234-MD2: 18"-PG-A202-MD2--to--18"-PG-4
- 18in-PG-A-245-MD2: 18"-PG-2014-D2--to--18"-PG-20
- 2in-PG-AM-293-MF1: 2"-PG-AM276-MD2--to--CBA-29
- CBA-2910: Seal Gas Booster Compressor
- ESDY-2047: COMPRESSOR PRIMARY SEAL GAS
- ESDY-2043-B: MBF-2040 OUTLET ESD / SEQUENC
- ESDY-2047-A: PRIMARY SEAL GAS
- ESDY-2047-B: PRIMARY SEAL GAS
- IDBC-HQA-438002A: Hand Selector Switch (Hand-Of
- IDBC-MAU438002A-01: Motor Indicator Run/Stop
- IDBC-MIO438002A-01A: Motor Indicator HOA
- IDBC-MIR438002A-01: Motor Indicator Run
- NAP-2900: Seal Gas Trim Heater for CBA-2020 / Gas
- TIC-2901: NAP-2900 FUEL GAS SUPERHEATER OU
- TP-040-102-01: Piping Test Pack
- TP-040-102-02: Piping Test Pack
- TP-040-102-03: Piping Test Pack
- Motor Indicator Run Stop: IDBC_M438002A-01
- CN-12: System Commissioning Completion Certificate
- CN-15: Sub System Mechanical Completion Certificat
- DC-03C: Dynamic Commissioning - Gas Compression
- 040.102-DC-03C_V1
- MC Status
- SC Status

040.103: Compressor & Gas Turbine Vendor Package

040.104: Compressor & GT Ancillaries

050: Fuel Gas

- 050.101: Frn Exist Manifold to SDV0050
- 050.102: Crossover In Exist FG Header

Number	Name	Status	Instrumentation
ESDY-2047-B	PRIMARY SEAL GAS	~	Valve - Solenoid Instrument.
IDBC-HQA-438002A	Hand Selector Switch (Hand-Off-Auto)	~	Hand Off Auto Switch Instrument.
IDBC-MAU438002A-01	Motor Indicator Run/Stop	~	Motor Indicator Run... Instrument.
IDBC-MIO438002A-01A	Motor Indicator HOA	~	Motor Indicator HOA Instrument.
IDBC-MIR438002A-01	Motor Indicator Run	~	Motor Indicator Run Instrument.
NAP-2900	Seal Gas Trim Heater for CBA-2020 / Gas Se...	~	Heat Exchanger / H... Mechanica
TIC-2901	NAP-2900 FUEL GAS SUPERHEATER OUT...	~	Distributed Control S... Instrument.

Certificate or Notice

Number	Name	Status	Checksheet Tem...	Documer
CN-12	CN-12: System Commissioning Completion Cer...	Completed		E:\Zenator
CN-15	CN-15: Sub System Mechanical Completion C...	Completed		E:\Zenator

C ITR

Number	Name	Status	Date Completed	% Comple
DC-03C	Dynamic Comm... 040.102: Dynamic Commissioning - Gas Comp...	Not Started		0

Instrument Loop

Number	Name	Status
Motor Indicator Run Stop	IDBC_M438002A-01	~

Piping Test Pack

Number	Name	Status
TP-040-102-01	Piping Test Pack	~
TP-040-102-02	Piping Test Pack	~
TP-040-102-03	Piping Test Pack	~


Status: ~ Sort Order: Number Selected Node: 040.102: Compressor Bypass Tie-in to Gas Filter Seps_5 Node ID: 1373 Node Type: Sub System [6] Node Status: ~ [0] Role:



Zenator Check



Dynamic Commissioning activities through B Checksheets or CITRs



Templates

View | Tag Type Matrix | Tag Type Matrix Summary

Code: Template Type: System ITRs Node Type: C ITR Discipline: ~ Filter

Code	Description	Template Type	Node Type	Discipline	Planned man ho...	Default Person	Created By
<input checked="" type="checkbox"/> DC-01C	Dynamic Commissioning - Commissioning	System ITRs	C ITR	~	100	~	cbell
<input checked="" type="checkbox"/> DC-02C	Dynamic Commissioning - Production & Test Separators	System ITRs	C ITR	~	100	~	cbell
<input checked="" type="checkbox"/> DC-03C	Dynamic Commissioning - Gas Compression	System ITRs	C ITR	~	100	~	cbell
<input checked="" type="checkbox"/> DC-04C	Dynamic Commissioning - Fuel Gas	System ITRs	C ITR	~	100	~	cbell
<input checked="" type="checkbox"/> DC-05C	Dynamic Commissioning - Condensate Coalescer	System ITRs	C ITR	~	100	~	cbell
<input checked="" type="checkbox"/> DC-06C	Dynamic Commissioning - Closed Drains	System ITRs	C ITR	~	100	~	cbell

Help | Select All | Export | Check Document Exists | New | Modify | Delete | Cancel

Record Count: 6



Zenator Check



BITRs, Test Pack ITR, Loop ITRs and CITRs Processing

- The resulting documents from these Wizard generation and manual processes can be printed if operating a paper system or can be converted to PDF for electronic completion.
- The final document and any additional information sheets can all be scanned and loaded back into *Zenator*.
- *Zenator* will track the status of these ITRs from Not Started, Started to finally Completed.
- For completed ITRs you will be able to view the completed signed off Checksheet and any additional information sheets.
- As previously reviewed the Bulk Management ITR and Bulk Management Document screens are there to assist with the management of these ITR and Document records.

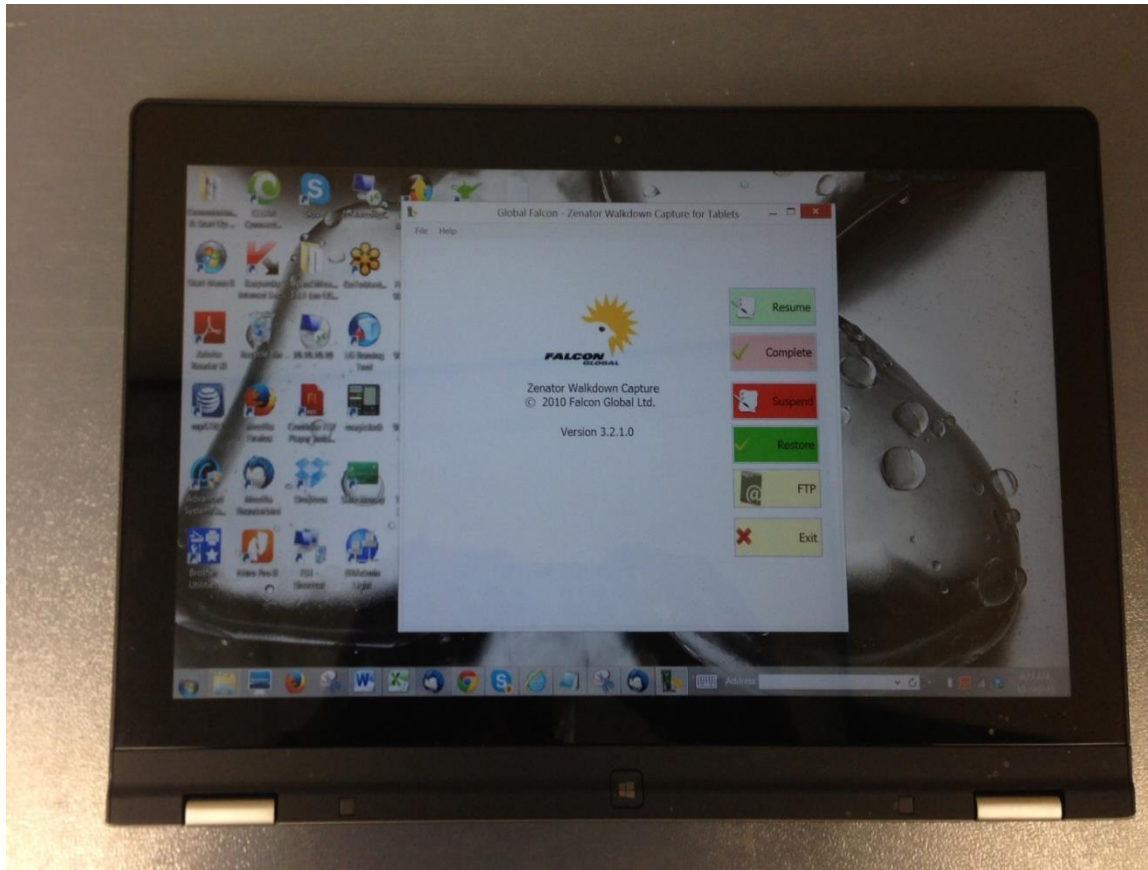


Zenator Walkdown Capture



System / Sub System Walkdowns to capture Punch List Items

**Win 10 OS
Touchscreen
Tablets with
rear-facing
Camera**





Zenator Walkdown Capture bringing Technology to Punch Listing



**Recording and Clearing Punch List Items made easy!
2 minutes is all it takes**

Zenator Reports Plus

Obtain KPIs and Monitor via Reporting

Zenator Check

Central Control of Lookup Codes including Fault Codes

Prepare Data File Deciding Systems or Sub Systems For Walkdown

Multiple Methods for PLI Clearing

1. Manual Clearing Individually or in Bulk.
2. Zenator Generated Barcoded Documents.
3. Barcoded Reports for multiple PLIs.
4. Walkdown Capture.

Assign Punch List Activities & Track Status

Manage PLIs in Zenator Check

Import Walkdown Capture File into Zenator

Zenator Walkdown Capture

Download Export File to Walkdown Capture Device

Sign In and Commence Walkdown

Record or Clear PLIs

Clear PLI 1

Record PLI 1

Identify, Record, Take Image & Save

Clear PLI n

Record PLI n

Upload Completed File to Zenator Check

Sign out & Complete Walkdown

Optional Review and Final Adjustments



Walkdown Capture

Recording and Clearing PLIs made easy!



Fault Codes

- Helping to standardize Punch Listing
- Improving communication
- Not everyone has English as first language

Tablet App

- Makes Recording and Clearing PLIs so easy
- Touch Screen, Big Buttons, Glove and Fat Finger Friendly
- Sign In / Sign Out security
- Start, Save, Pause, Resume and Complete a Walkdown
- Apply Fault Codes or Add New
- Photos for positive identification
- Seamless upload to *Zenator* through *Check Sync*
- Updates New Fault Codes in *Zenator*



Walkdown Capture

Recording and Clearing PLIs made easy!



Punch Listing using WDC during SMCC WD



Walkdown Capture

Recording and Clearing PLIs made easy!



Mechanical Completion Walk Down of Earthing Subsystem



Zenator Walkdown Capture



System / Sub System Walkdowns to capture Punch List Items



During Static and Dynamic Commissioning Walkdown Capture will be used to perform the official Walkdowns to both capture and clear Punch List Items.



Zenator Check



Commissioning Phase Summary

- Through this phase all the activities of the Construction Phase will complete Sub Systems.
- These will pass on to Static Commissioning followed by Dynamic Commissioning.
- Certification will track the relevant certificates through each Milestone until Hand Over to Operations is reached.



Zenator Launch



Data Import Tool for all Phases of a Project

- Import options currently available are:
 - Equipment (Tag) Import for new and updates to existing records.
 - Equipment (Tag) Update Import for updates to existing records.
 - Punch List Items Import for new and updates to existing records.
 - Certificate Import for new certificates and updates to existing certificates.
 - Route Import (planning information) for new and updates to existing planning information.
 - Associated Documents Import for associating documents to the project tree and updating existing links.
 - TLCB (Test Pack, Instrument Loop, Electrical Circuit and Bulk) Import for new and updates to existing records.
 - Tag Type Matrix Imports for VITR, AITR, BITR, PITR and EITR.
 - Utility Imports for PLI Fault Code and Project Resources.
- Imports are via Excel and also XML files.



Zenator Launch



Data Import Tool for all Phases of a Project

- Strict import user definable rules to reject in valid data.
- Detailed rejection reports available for correction and re-processing.
- Flexible Import Template definition allowing Custom Fields allowing purpose built imports for Mechanical, Electrical, Instruments, etc
- Typical Tag Import looks as follows:

	A	B	C	D	E	F	G	H	
	Tag No	Tag Name	Discipline	Main	Sub	System Group Name	System Group Number	System Name	Sys Nur
1									
2	10in-PG-AM-264-MD2	MBF-2010 --to--TRIM	Piping	Piping	Pipe Spool	Commissionable	01	Gas Compression	040
3	10in-PG-AM-285-ME2	NAP2900--to--TRIM	Piping	Piping	Pipe Spool	Commissionable	01	Gas Compression	040
4	18in-PG-A-202-MD2	18"-PG-AM202-MD2--to--18"-PG-A234-MD2	Piping	Piping	Pipe Spool	Commissionable	01	Gas Compression	040
5	18in-PG-A-234-MD2	18"-PG-A202-MD2--to--18"-PG-A245-MD2	Piping	Piping	Pipe Spool	Commissionable	01	Gas Compression	040
6	18in-PG-A-245-MD2	18"-PG-2014-D2--to--18"-PG-2016-D2	Piping	Piping	Pipe Spool	Commissionable	01	Gas Compression	040
7	1in-DC-A-728-ME2	COND PUMP(STUFFING BOX DRAIN)	Piping	Piping	Pipe Spool	Commissionable	01	Closed Drains	060
8	1in-DC-A-731-ME2	COND PUMP(STUFFING BOX DRAIN)	Piping	Piping	Pipe Spool	Commissionable	01	Closed Drains	060
9	1in-DC-A-734-ME2	COND PUMP(STUFFING BOX DRAIN)	Piping	Piping	Pipe Spool	Commissionable	01	Closed Drains	060
10	1in-DC-A-735-ME2	COND PUMP(STUFFING BOX DRAIN)	Piping	Piping	Pipe Spool	Commissionable	01	Closed Drains	060
11	1in-DC-AM-730-MA1	SYNTHETIC OIL DRAIN M128--to--2"-DC-AM724-	Piping	Piping	Pipe Spool	Commissionable	01	Closed Drains	060
12	1in-DC-AM-738-MD2	Comp Package(M198/9)--to--2"-DC-AM724-MA	Piping	Piping	Pipe Spool	Commissionable	01	Closed Drains	060
13	2in-DC-A-701-MA1	2"-DC-AM701-MA1--to--2"-DC-701-A1	Piping	Piping	Pipe Spool	Commissionable	01	Closed Drains	060
14	2in-DC-AM-701-MA1	LAN-2400--to--2"-DC-A701-MA1	Piping	Piping	Pipe Spool	Commissionable	01	Closed Drains	060
15	2in-DC-AM-720-MA1	LAN-2410--to--2"-DC-AM701-MA1	Piping	Piping	Pipe Spool	Commissionable	01	Closed Drains	060



Zenator Allocator



Completed Document Processing Tool

- *Zenator Allocator* is supplied with *Zenator Systems* and is used to process all completed *Zenator* generated documents.
- All *Zenator* generated documents contain a barcode to allow for easy processing of the completed documents whether from the result of scanning physical paper ITRs or the electronically completed ITRs.
- Processing updates the status of the parent record to closed according to user defined settings.
- Document Types include:
 - ITRs (VITRs, AITRs, BITRs, CITRs, EITRs and PITRs)
 - Certificates and Notices
 - Punch List Items
 - Change Management Items
- Multi record reports with barcodes also scanned for PITRs and PLIs.



Zenator Reports Plus



During all phases Reports Plus is available for all Reporting Needs


- *Zenator* comes with a comprehensive pre-defined set of reports which are available within the *Zenator Reports Plus* module.
- All reports within *Zenator* are exported to Microsoft Excel where we utilise the advanced reporting features of Excel.
- Reports fall into four different key styles:
 - Detailed list style reports.
 - Excel Pivot Tables.
 - Graphical Reporting.
 - Specialised Reporting.
- Reports are easily Customized.



Zenator Reports Plus



Comprehensive Pre-defined Set of Reports



Reports Plus Version: 3.3.2.1

File Help

Data Source: SUPPORT3321-CB Project: Execution Phase - Commissioning Refresh Date Refreshed: 23-Jan-2016 00:09:35 User Name: cbell

Category:	Report:
Project Summary	Project Summary Report
Project Summary	CMS-Daily Project Progress Report

System Analysis	System Summary Analysis
System Analysis	System Report
System Analysis	Sub System Skyline
System Analysis	Subsystem SMCC Summary Analysis

Tag Reporting	Tag Summary Analysis and Detail
Tag Reporting	Tags with no ITRs
Tag Reporting	Tag Count Per Module Discipline Tag Type
Tag Reporting	Tag Count Per Systems Module Discipline Tag Type

ITR Reporting	ITRs Status Index
ITR Reporting	ITR Summary Analysis
ITR Reporting	Sub System Run Down Curve
ITR Reporting	Preservation ITRs Detailed Analysis
ITR Reporting	Graphical ITR Progress report
ITR Reporting	Graphical ITR Progress report MOSAIC by System Group
ITR Reporting	Graphical ITR Progress report MOSAIC by Discipline
ITR Reporting	Detail ITR List
ITR Reporting	Housekeeping Report - ITRS
ITR Reporting	Preservation ITRs Barcode
ITR Reporting	Manhours

This report provides an System Level Summary analysis report through the use of a Pivot Table. A variety of tags attributes are provided including counts for analysis within the Pivot Table.

System Group(s)

- >>> ALL SYSTEM GROUPS <<<--
- 01 - Commissionable

System(s)

- >>> ALL SYSTEMS <<<--
- 020 - Communication
- 035 - Production & Test Separators
- 040 - Gas Compression
- 050 - Fuel Gas
- 055 - Condensate Coalescer

System Priority(s)

- >>> ALL SYSTEMS PRIORITIES <<<--

Sub System(s)

- >>> ALL SUB-SYSTEMS <<<--
- 020.101 - T...

Ready.

ReportXML Location: E:\Zenator\EJJVPRODUCTION\reportxml\reportadmin.xml

Template Location: E:\Zenator\EJJVPRODUCTION\Excel2007

Select All Clear All Get Report



Zenator Reports Plus



Detailed Listing Reports

Reports Plus Version: 3.3.2.1

File Help

Data Source: SUPPORT3321-CB Project: Execution Phase - Commissioning Refresh Date Refreshed: 23-Jan-2016 00:09:35 User Name: cbel

Category:	Report:
Project Summary	Project Summary Report
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System Analysis	System Summary Analysis
System Analysis	System Report
System Analysis	Sub System Skyline
System Analysis	Subsystem SMCC Summary Analysis

Tag Reporting	Tag Summary Analysis and Detail
Tag Reporting	Tags with no ITRs
Tag Reporting	Tag Count Per Module Discipline Tag Type
Tag Reporting	Tag Count Per Systems Module Discipline Tag Type

ITR Reporting	ITRs Status Index
ITR Reporting	ITR Summary Analysis
ITR Reporting	Sub System Run Down Curve
ITR Reporting	Preservation ITRs Detailed Analysis
ITR Reporting	Graphical ITR Progress report
ITR Reporting	Graphical ITR Progress report MDSAIC by System Group
ITR Reporting	Graphical ITR Progress report MDSAIC by Discipline
ITR Reporting	Detail ITR List
ITR Reporting	Housekeeping Report - ITRS
ITR Reporting	Preservation ITRs Barcode
ITR Reporting	Manhours

This document lists by document type (A ITR, B ITR, Bulk AITR, Bulk BITR) each single issued documents with created date, status (Complete or Incomplete), Tag description, Module and SubSystem info for A and B single ITR.

Check Sheet Type

- >>> ALL CHECKSHEET TYPES <<<--
- AITR
- BITR
- CITR
- Electrical Circuit ITR
- Piping Test Pack ITR

System Group(s)

- >>> ALL SYSTEM GROUPS <<<--
- 01 - Commissionable

System(s)

- >>> ALL SYSTEMS <<<--
- 020 - Communication
- 035 - Production & Test Separators
- 040 - Gas Compression
- 050 - Fuel Gas
- 055 - Condensate Coalescer

Sub System(s)

- >>> ALL SUB-SYSTEMS <<<--
- 020.101 - T...

Ready.

ReportXML Location: E:\Zenator\EJVPRODUCTION\reportxml\reportadmin.xml

Template Location: E:\Zenator\EJVPRODUCTION\Excel2007


Select All Clear All Get Report




Zenator Reports Plus



Detailed Listing Reports



A3 fx COM-203C

	A	B	C	D	E	F	G	H	I	
1		Overall ITRs List								
2	Tag No / Bulk	Tag Description	Tag Disciplin	Tag Type	ITR Type	ITR Code	ITR Name	ITR Disciplin	Date Created	D
3	COM-203C	CABLE	Electrical	Low Voltage (Cables)	AITR	E-01AX	LV Cable	Electrical	09-Dec-15	
4	COM-203C	CABLE	Electrical	Low Voltage (Cables)	BITR	E-01B	Communication LV Cable	Electrical	11-Jan-16	
5	COM-203C	CABLE	Electrical	Low Voltage (Cables)	PITR	EA-10	ITEM STORAGE	Electrical	12-Jan-16	
6	COM-203C	CABLE	Electrical	Low Voltage (Cables)	PITR	EA-10	ITEM STORAGE	Electrical	12-Jan-16	
7	COM-203C	CABLE	Electrical	Low Voltage (Cables)	PITR	EA-10	ITEM STORAGE	Electrical	12-Jan-16	
8	COM-203C	CABLE	Electrical	Low Voltage (Cables)	PITR	EA-10	ITEM STORAGE	Electrical	12-Jan-16	
9	COM-203D	CABLE	Electrical	Low Voltage (Cables)	AITR	E-01AX	LV Cable	Electrical	09-Dec-15	
10	COM-203D	CABLE	Electrical	Low Voltage (Cables)	BITR	E-01B	Communication LV Cable	Electrical	11-Jan-16	
11	COM-203D	CABLE	Electrical	Low Voltage (Cables)	PITR	EA-10	ITEM STORAGE	Electrical	12-Jan-16	
12	COM-203D	CABLE	Electrical	Low Voltage (Cables)	PITR	EA-10	ITEM STORAGE	Electrical	12-Jan-16	
13	COM-203D	CABLE	Electrical	Low Voltage (Cables)	PITR	EA-10	ITEM STORAGE	Electrical	12-Jan-16	
14	COM-203D	CABLE	Electrical	Low Voltage (Cables)	PITR	EA-10	ITEM STORAGE	Electrical	12-Jan-16	
15	COM-205C	CABLE	Electrical	Low Voltage (Cables)	AITR	E-01AX	LV Cable	Electrical	09-Dec-15	

Ready Detailed 100%



Zenator Reports Plus



Pivot Table Style Reporting

System	Sub System	Tags	AITRs	AITRs Comp	AITRs % Comp	Test Packs	Test Pack IT
System Summary Analysis Report							
020-Communication							
	020.101-Tannoy	4	4	4	100.00%	0	
020-Communication Total		4	4	4	100.00%	0	
035-Production & Test Separators							
	035.101-Frm BV to Sep #3 Outlet	4	4	4	100.00%	0	
	035.102-Frm Exist_Seps to SDV2010	2	2	2	100.00%	0	
035-Production & Test Separators Total		6	6	6	100.00%	0	
040-Gas Compression							
	040.101-Frm BV ds SDV2010 to XV2042-2043	39	49	49	100.00%	0	
	040.102-Compressor Bypass & Tie-in to Gas Filter Seps_ & S	13	8	8	100.00%	3	
	040.103-Compressor & Gas Turbine Vendor Package	143	2	2	100.00%	0	
	040.104-Compressor & GT Ancillaries	97	60	60	100.00%	0	
040-Gas Compression Total		292	119	119	100.00%	3	
050-Fuel Gas							
	050.101-Frm Exist Manifold to SDV0050	1	1	1	100.00%	0	
	050.102-Crossover to Exist FG Header	1	0	0	0.00%	1	
	050.103-Frm SDV0050 to ds GT FG Filters & GT	7	5	5	100.00%	0	



Zenator Reports Plus



Pivot Table Style Reporting

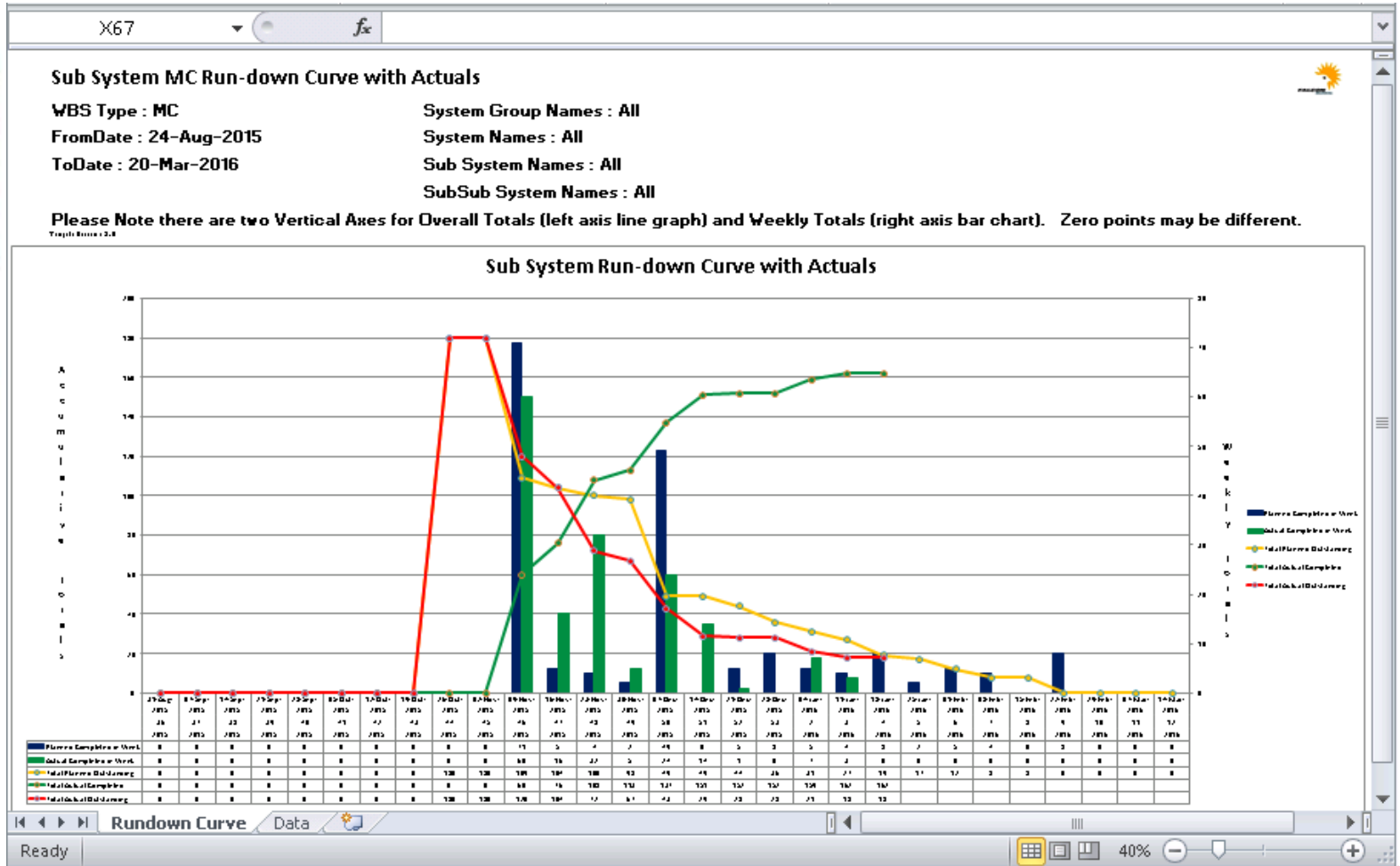
The screenshot displays an Excel spreadsheet with a PivotTable titled "System Summary Analysis Report". The PivotTable is structured with "System" and "Sub System" as row labels and "Tags", "AITRs", and "AITRs Cor" as column labels. The data is summarized by system and sub-system categories.

System	Sub System	Tags	AITRs	AITRs Cor
020-Communication	020.101-Tannoy	4	4	
020-Communication Total		4	4	
035-Production & Test Separators	035.101-Frm BV to Sep #3 Outlet	4	4	
	035.102-Frm Exist_Seps to SDV2010	2	2	
035-Production & Test Separators Total		6	6	
040-Gas Compression	040.101-Frm BV ds SDV2010 to XV2042-2043	39	49	
	040.102-Compressor Bypass & Tie-in to Gas Filter Seps_ & S	13	8	
	040.103-Compressor & Gas Turbine Vendor Package	143	2	
	040.104-Compressor & GT Ancillaries	97	60	
040-Gas Compression Total		292	119	
050-Fuel Gas	050.101-Frm Exist Manifold to SDV0050	1	1	
	050.102-Crossover to Exist FG Header	1	0	
	050.103-Frm SDV0050 to ds GT FG Filters & GT	7	5	

The PivotTable Field List task pane on the right shows the following configuration:

- Choose fields to add to report:
 - Project Group
 - Project Name
 - System Group
 - System**
 - System Priority
 - Sub System**
 - Sub System Priority
 - Sub Sub System
 - Sub Sub System Priority
 - Discipline
 - Module
- Drag fields between areas below:
 - Report Filter: (empty)
 - Column Labels: Σ Values
 - Row Labels: System, Sub System
 - Values: Σ Values, AITRs % ..., Test Packs, Test Pack
- Defer Layout Update
- Update

Graphical Style Reporting





Zenator Reports Plus



Skyline Chart

Sub System Skyline Report For MC : Created @ 24 January 2016 01:51																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Sub System Skyline Report For MC : Created @ 24 January 2016 01:51															
2																
3	System Groups = All															
4	Systems = All															
5	SubSystems = All															
6	Date Range : From 2015-11-01 To 2016-03-30															
7																
8	Not Started															
9	Started															
10	Completed															
11	Critical Path															
12	Date	8	15	22	29	6	13	20	27	3	10	17	24	31	7	
13	Month	Nov-15	Nov-15	Nov-15	Nov-15	Dec-15	Dec-15	Dec-15	Dec-15	Jan-16	Jan-16	Jan-16	Jan-16	Jan-16	Feb-16	Fe
14																
15	Sub System	0	0	1	1	1	1	3	3	3	2	2	1	1	1	
16	Accum Sub System	0	0	1	2	3	4	7	10	13	15	17	18	19	20	
17																
18	Checksheet	0	0	5	4	2	49	20	68	8	5	4	8	2	5	
19	Comp Checksheets	0	0	5	4	2	49	20	68	6	5	4	6	2	3	
20	OS Checksheets	0	0	0	0	0	0	0	0	2	0	0	2	0	2	
21	Accum Checksheets	0	0	5	9	11	60	80	148	156	161	165	173	175	180	
22	Accum OS Checksheets	0	0	0	0	0	0	0	0	2	2	2	4	4	6	
23	ITR Liquidation%	0	0	100	100	100	100	100	100	98.72	98.76	98.79	97.69	97.71	96.67	9
24																
25	Punch List	0	0	2	2	0	0	10	8	0	1	2	0	0	0	
26	Comp Punch List	0	0	2	2	0	0	2	7	0	0	2	0	0	0	



Zenator Reports Plus



Specialized Reports

BC12 X ✓ fx 100%

Cell Colour Legend
Completed / Not Required

PROJECT SUMMARY REPORT

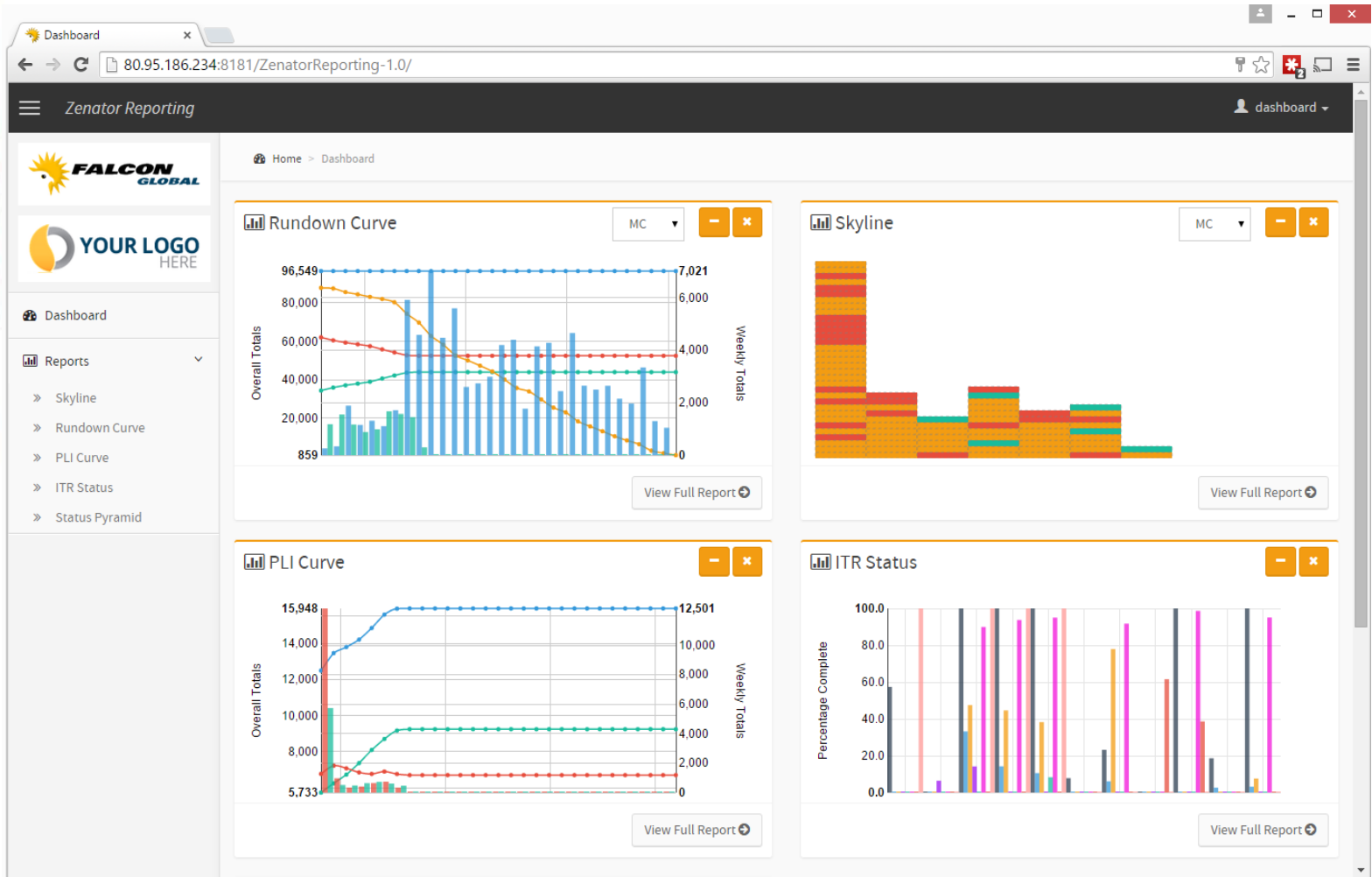
CONSTRUCTION COMPLETION

SubSystem	Milestone	MECHANICAL COMPLETION CHECK SHEETS		Discipline Mechanical Completion Walkdown and Certificate (DMCCVD and DMCC actual completion dates)								SUB-SYSTEM MECHANICAL COMPLETION CERTIFICATION (SMCC WALK-DOWN & CERTIFICATION)							
		All Disciplines MC Check sheet			Electrical		Instrument		Mechanical		Piping		SMCC Tri-Party WalkDown		Category "A" Punch List				
		Total	Remain	%	Walk Down Date	DMCC Approv Date	Walk Down Date	DMCC Approv Date	Walk Down Date	DMCC Approv Date	Walk Down Date	DMCC Approv Date	Planned Date	Forecast	Actual Date	Ta	Remain	%	
009-11 - Temporary Air Compressor	T	4	0	100%										22-Mar-15			0	0	
009-23 - Temporary External Power 20 KV	T	1	0	100%										27-Jan-15			0	0	
009-24 - Temporary External Power 11 KV	T	1	0	100%										27-Jan-15			29	0	100%
009-25 - Temporary External Power 400 V	T	14	0	100%		06-Oct-14								27-Jan-15		31-Jan-15	9	0	100%
009-26 - Temporary Load Bank For GTG and Essential Diesel Generator	T																0	0	
050-01 - Civil Works at Area 100	M15	137	0	100%										24-Mar-15		28-Aug-15	22	0	100%
050-02 - Civil Works at Area 200	M15	107	0	100%										17-Nov-15		02-Sep-15	21	10	52%
050-03 - Civil Works at Area 300	M15	184	0	100%										13-May-15		04-Oct-15	3	0	100%
050-04 - Civil Works at Area 400	M15	180	0	100%										26-Apr-15		05-Sep-15	12	0	100%
050-05 - Civil Works at Area 500	M15	172	0	100%										02-Apr-15		15-Oct-15	11	7	36%
050-06 - Civil Works at Area 600	M15	330	0	100%										13-Nov-15		20-Oct-15	14	10	28%

Project Summary Daily Report Certification CHART



Zenator Reporting Dashboard

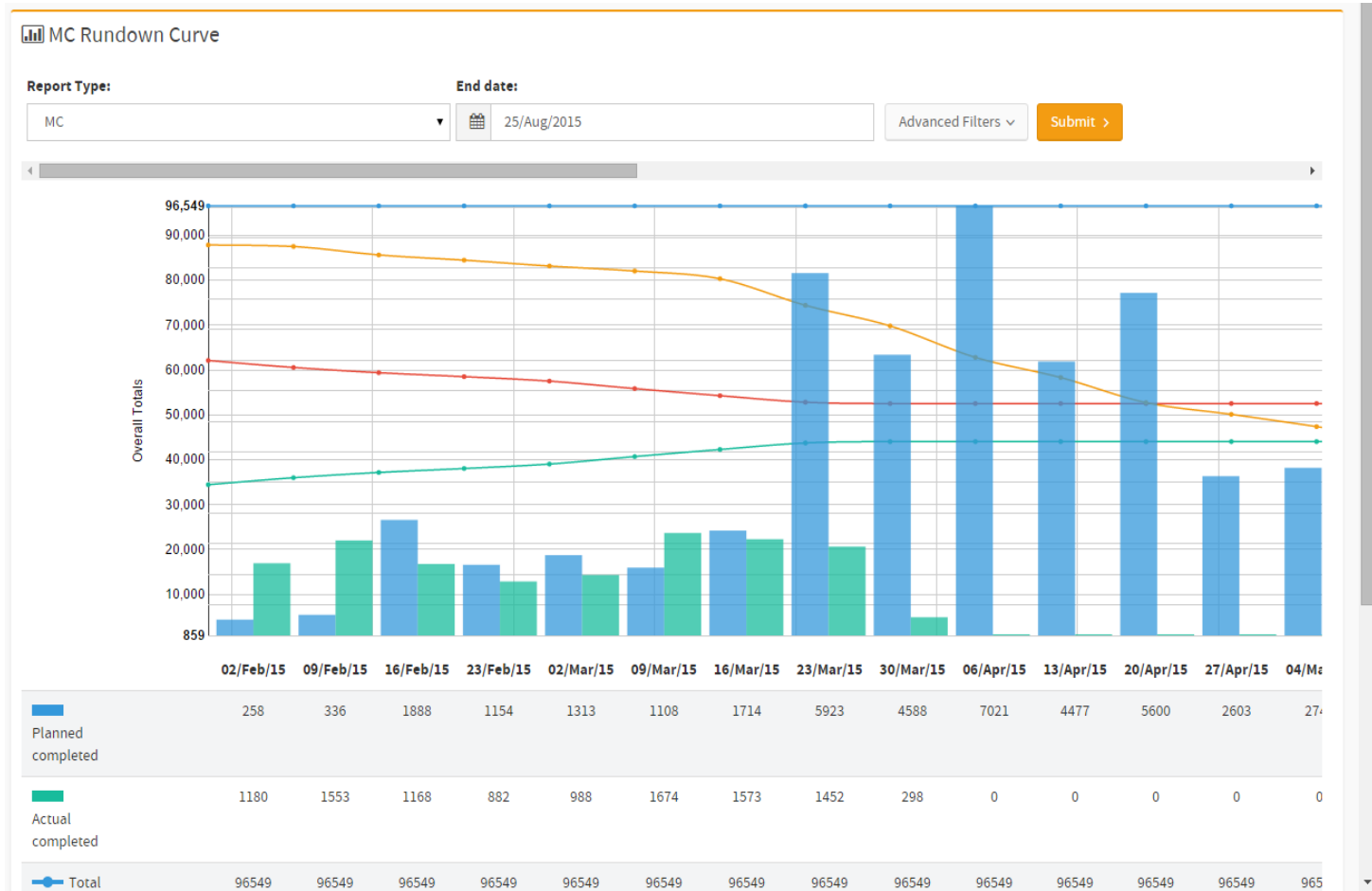




Zenator Reporting Dashboard



Dashboard Rundown Curves





Zenator Reporting Dashboard



Dashboard Skyline Report

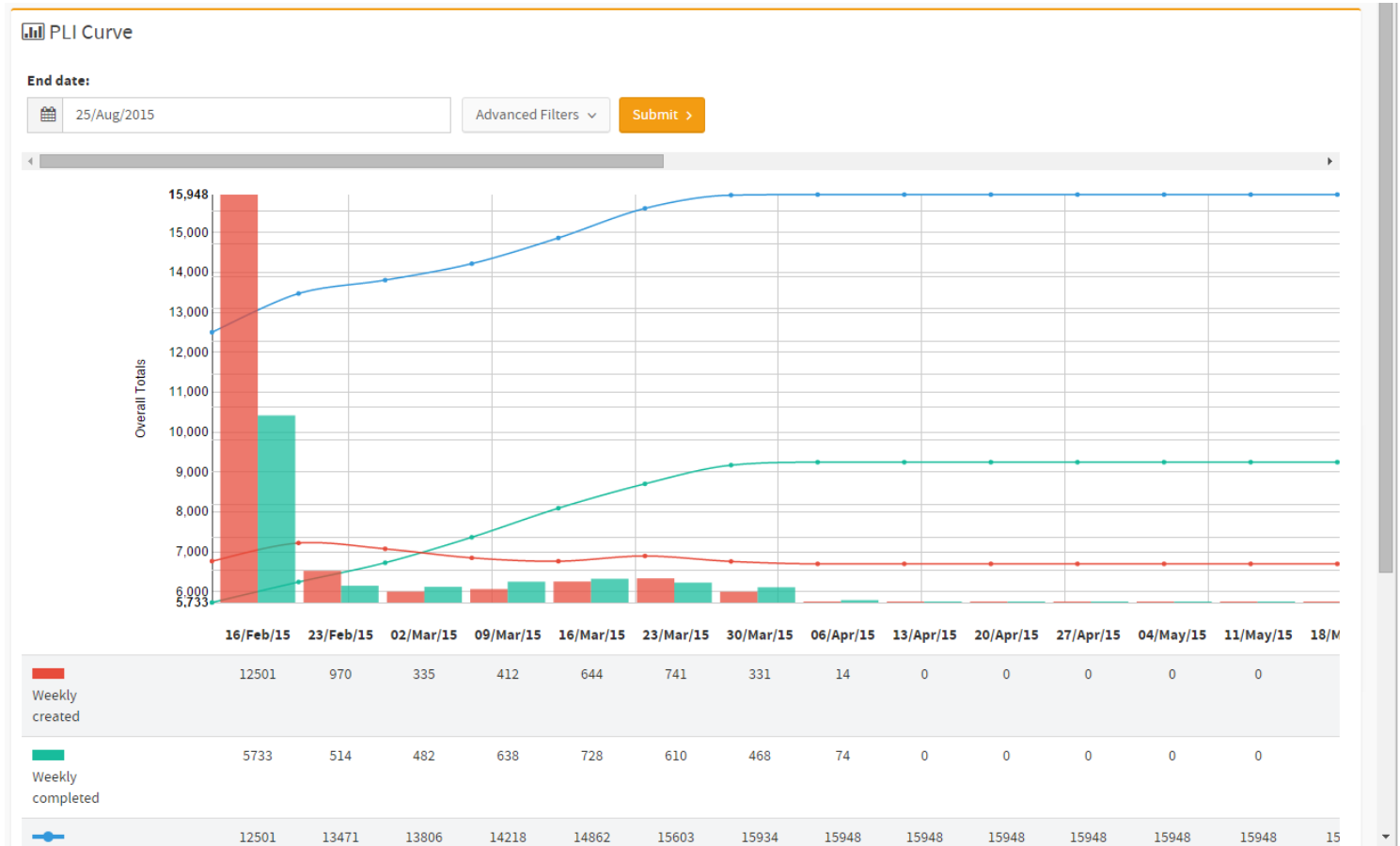




Zenator Reporting Dashboard



Punch List Progress Report




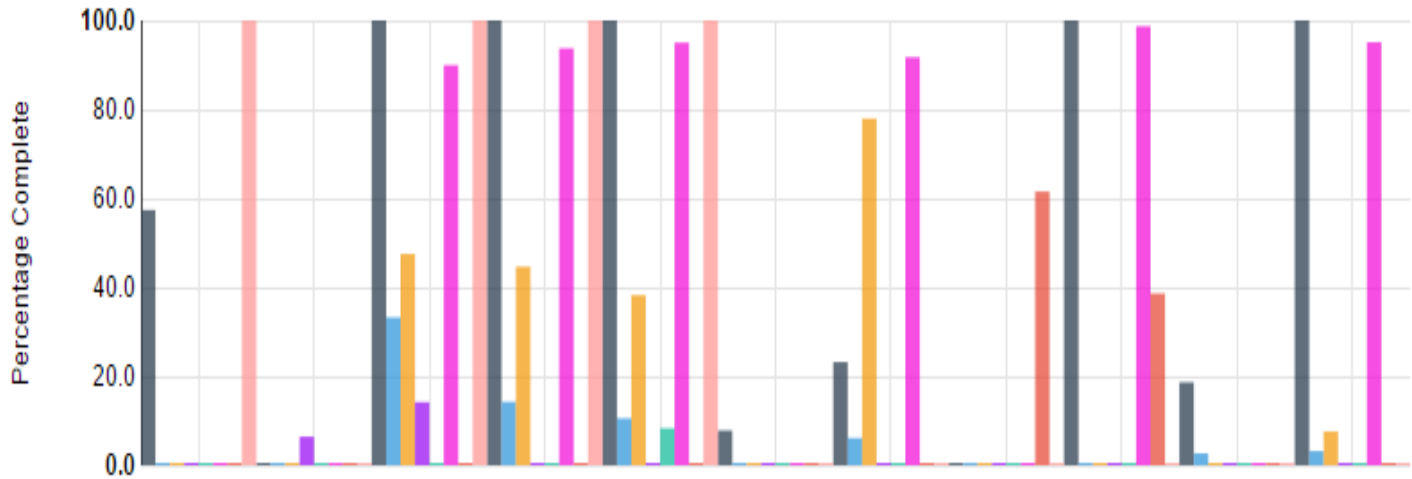


Zenator Reporting Dashboard



ITR Status by Discipline Report

 ITR Status

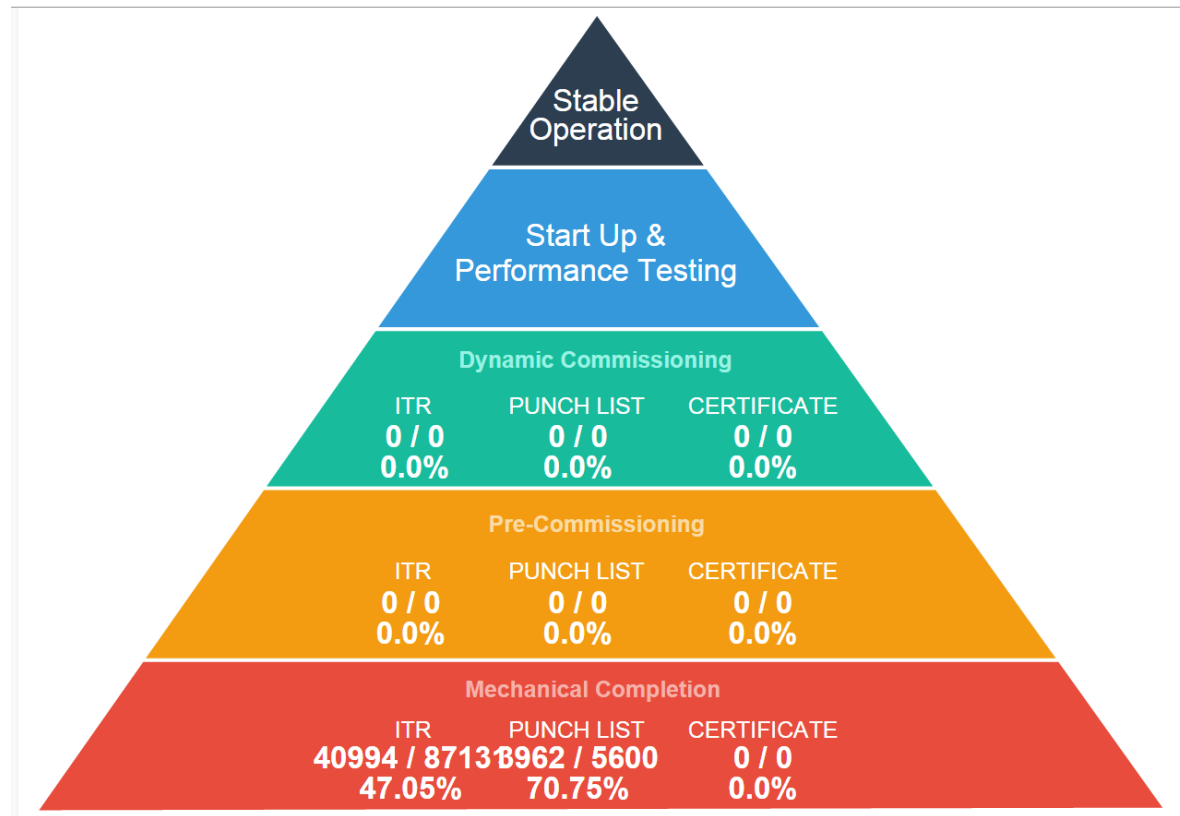




Zenator Reporting Dashboard



Status Pyramid Report





Zenator Systems



Asset Integrity Management System

- Check
- Document Generation and Management
- Paper-based / Paper-reducing / Paperless
- Reporting
- Security

Not just software

New ways of working



Falcon Group Zenator Systems



Helping you to complete your projects

- On Time and Safely

Global Falcon Americas, Inc.
Houston, Texas
United States of America
Attention: Mr Alan J Mills, President & CEO
E: amills@globalfalcon.net
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Falcon Global Limited
Norwich
United Kingdom
Attention: Mr Alan J Mills, Managing Director
E: amills@falcongloabal.net
www.falcongloabal.net



Thank you for taking the time to view our presentation