Industry: **Chemical**

# Digitized workflow management for a leading chemical manufacturer

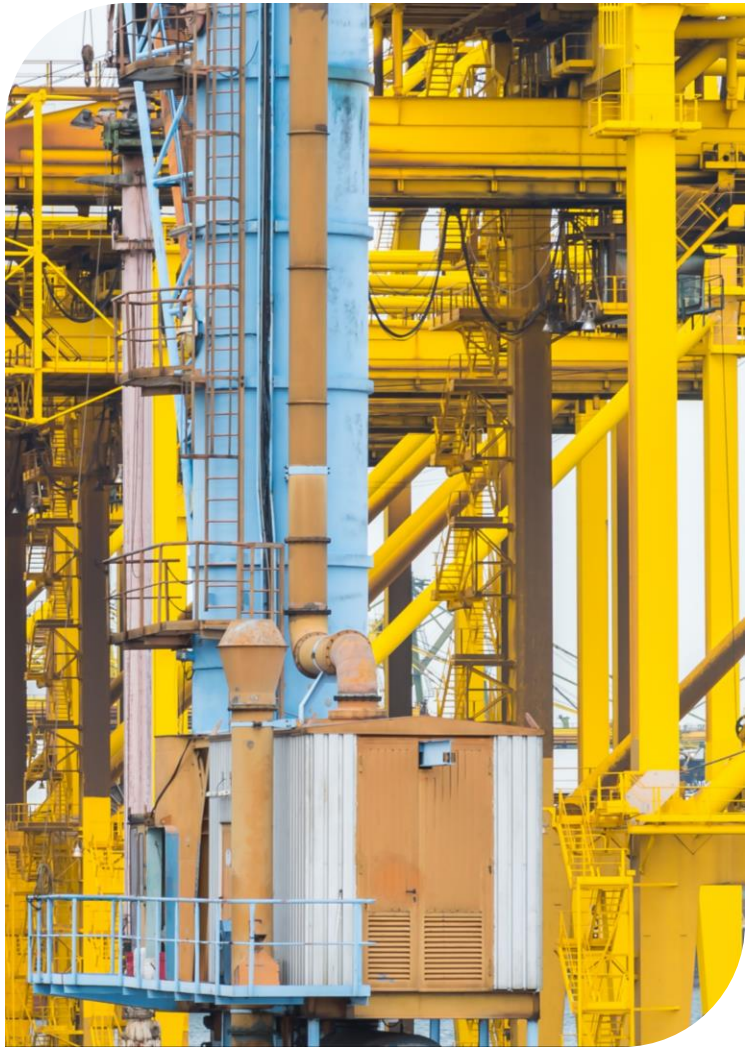
A prominent chemical manufacturer enhanced its operational efficiency by implementing Octopus Digital's Digital Log solution, transitioning from outdated manual processes to a streamlined digital ecosystem.

## Problem

The manufacturer relied heavily on **manual, paper-based workflows** that resulted in frequent delays and unreliable data. Without a structured system for input validation or controlled access, errors became common. **The fragmented approach** also made it difficult to trace historical performance, hindering root-cause analysis and delaying issue resolution.

## Solution

**Digital Log** introduced a unified digital environment where workflows were automated from end to end. The system enabled **real-time data validation** at the point of entry, minimizing inaccuracies. Role-based access and audit trails strengthened data governance, while interactive dashboards provided teams with clarity and insight into ongoing operations. With **predictive diagnostics embedded**, teams could proactively respond to inefficiencies before they escalated.



## Impact

**Productivity surge:** 40% increase in operator efficiency across 11 departments and 22 sections.

**Data integrity:** Automated validation reduced errors and improved transparency.

**Proven reliability:** 250+ users, 99.9% uptime since Feb 2020, 550 checklists, 27,000 tags created.

# Application Screenshots

*Data is morphed for client privacy and copyrights.

# Hierarchy Builder

Type a keyword to filter

- Administration
  Timekeeping - checklist
- Bore Holes
  Bore Holes
- CA
  CA Plant
- Crane Station yard
  Crane Station yard
- EVCM Unit
  -
- HSE
  HSE
- LAB
  LAB
  - CA Analysis Lab
    CA Analysis Lab
    - New Application Lab
      New Application Lab
      - » Canopy F (On Betol)
        Canopy F (On Betol)
      - » Drinking water
        Drinking water
      - » Fume Hood (New Application Lab)
        Fume Hood (New Application Lab)
    - » Canopy G (On Extruder)
      Canopy G (On Extruder)
    - » Fume Hood A (CA Lab)
      Fume Hood (CA Lab)
    - » Fume Hood B (CA Lab)
      Fume Hood B (CA Lab)
  - CCR
    CCR samples and Formats
  - Chemical Store Room
    Chemical Store Room
  - Cylinder Storage Area
    Cylinder Storage Area
  - ENV
    Environmental Samples

## Item Details

Edit

Name
Test-ODL-QA

Description
Test

Ref. No
1212

Type
Asset

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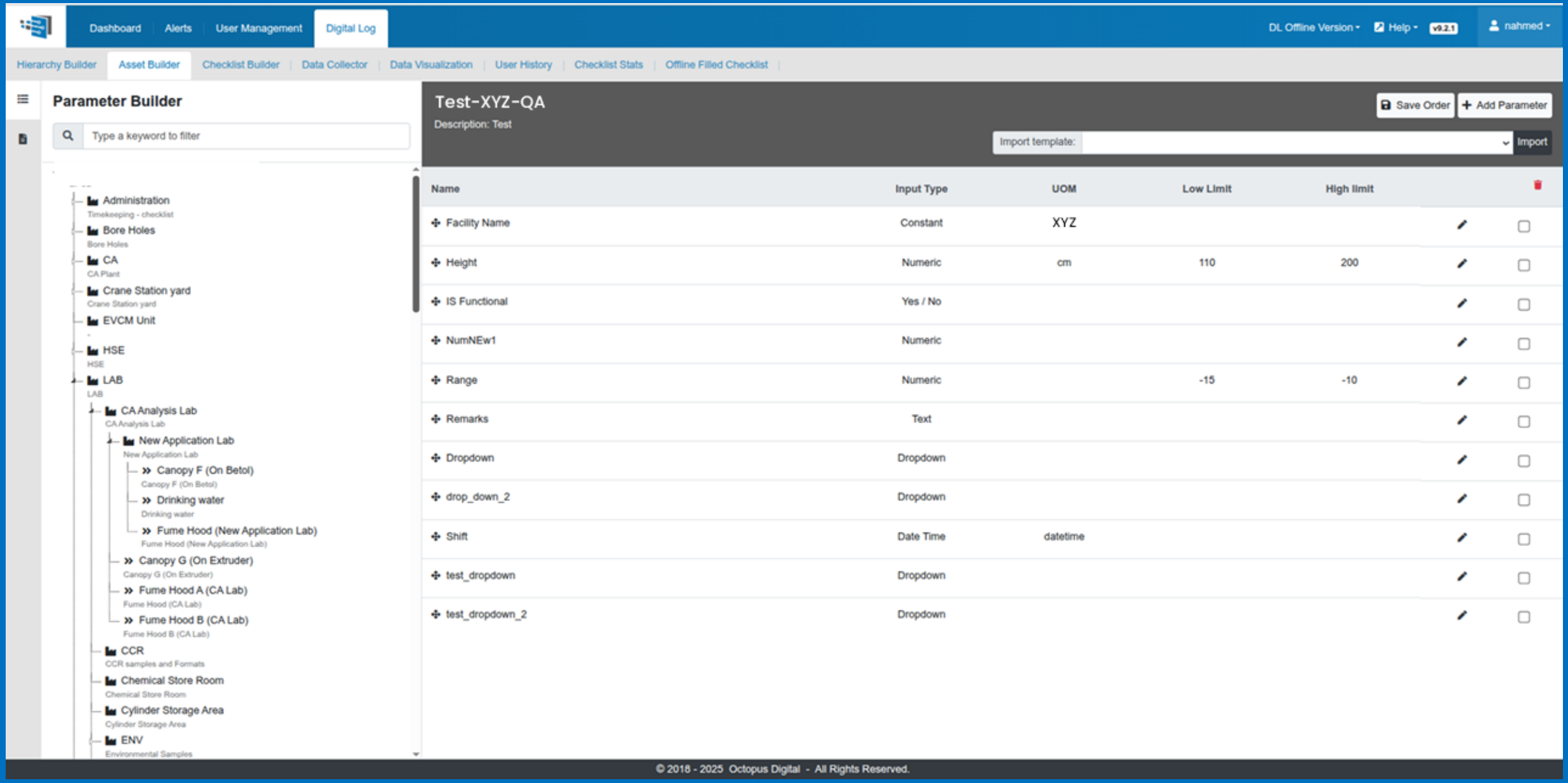
Dashboard
Alerts
User Management
Digital Log
DL Offline Version
Help
v9.2.1
nahmed
Hierarchy Builder
Asset Builder
Checklist Builder
Data Collector
Data Visualization
User History
Checklist Stats
Offline Filled Checklist
Parameter Builder
Type a keyword to filter
Administration
Timekeeping - checklist
Bore Holes
Bore Holes
CA
CA Plant
Crane Station yard
Crane Station yard
EVCM Unit
HSE
HSE
LAB
LAB
CA Analysis Lab
CA Analysis Lab
New Application Lab
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Canopy F (On Betol)
Canopy F (On Betol)
Drinking water
Drinking water
Fume Hood (New Application Lab)
Fume Hood (New Application Lab)
Canopy G (On Extruder)
Canopy G (On Extruder)
Fume Hood A (CA Lab)
Fume Hood (CA Lab)
Fume Hood B (CA Lab)
Fume Hood B (CA Lab)
CCR
CCR samples and Formats
Chemical Store Room
Chemical Store Room
Cylinder Storage Area
Cylinder Storage Area
ENV
Environmental Samples
Test-XYZ-QA
Description: Test
Save Order
Add Parameter
Import template:
Import
Name
Input Type
UOM
Low Limit
High limit
Facility Name
Constant
XYZ
Height
Numeric
cm
110
200
IS Functional
Yes / No
NumNEw1
Numeric
Range
Numeric
-15
-10
Remarks
Text
Dropdown
Dropdown
drop_down_2
Dropdown
Shift
Date Time
datetime
test_dropdown
Dropdown
test_dropdown_2
Dropdown
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## Template Builder

+ Add Template

Type a keyword to filter

- 001Test
  001Test Please ignore
- 3743
  3743
- 40-MESHING CHECKLIST
- 40-MESHING CHECKLIST 1
- 40-MESHING CHECKLIST 2
- 6.6 Kv Switch Gear Incoming Feeder Panel-1/ 2
- Alarms Summary Report
  Alarms Summary Report
- Ambulance
  DAILY AMBULANCE CHECKLIST FOR DRIVERS
- ASA Report
  ASA Report template
- BACKWASHING CHECKLIST FOR ACTIVATED CARBON FILTER (FL-3742 A/B)
- BACKWASHING CHECKLIST FOR ACTIVATED CARBON FILTER (FL-3742 A/B)
  BACKWASHING CHECKLIST FOR ACTIVATED CARBON FILTER (FL-3742 A/B)
- BACKWASHING CHECKLIST FOR MIX MEDIA SAND FILTER (FL-3741 A/B)
  BACKWASHING CHECKLIST FOR MIX MEDIA SAND FILTER (FL-3741 A/B)

## Alarms Summary Report

Description: Alarms Summary Report

+ Add Parameter

| Name | Input Type | UOM | Low Limit | High limit | Actions |
|---|---|---|---|---|---|
| Unit | Text | | | | |
| Area | Text | | | | |
| Urgent | Numeric | | | | |
| High | Numeric | | | | |
| Low | Numeric | | | | |
| Standing Alarm | Numeric | | | | |
| Shelved Alarm | Numeric | | | | |
| PV. Man. / Track | Numeric | | | | |
| Manual Action / hr | Numeric | | | | |
| Control loop at Manual | Numeric | | | | |
| Sequence at Man. | Numeric | | | | |
| Remarks | Text | | | | |

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## My Checklist(s)

Type a keyword to filter

LOADING CHECKLIST PM&S-2
Due date: No due date

# LOADING CHECKLIST PM&S-2

Description:
Department: Supply Chain
Section: PM & S

Go to Map | Filled Values | Save | Save & Forward | Skip | Submit

| Name | Input Field | UOM | Low Limit | High limit | Comments | Attachments |
|---|---|---|---|---|---|---|
| Location/Asset: Loading Checklist | | | | | | |
| 1-CHECKED THE STATUS & SURFACE OF CONTAINER / TRUCK BED AND FOUND OK | Ok / Not-Ok | | | | | View 0 |
| 2-IF NOT OK, REJECTED THE CONTAINER/TRUCK | Yes / No / NA | | | | | View 0 |
| 3-CHECK THE BOTTOM AND TOP LAYER, ALL 10 BAGS FROM BOTH SIDES FOR ANY WOODEN | Yes / No / NA | | | | | View 0 |
| 4-EACH TRUCK/ CONTAINER SHOULD HAVE TARPAULIN/PLASTIC SHEET, AND SAME WILL BE | Yes / No / NA | | | | | View 0 |
| 5-QUANTITY & QUALITY SHOULD BE COUNTER CHECKED BY TRUCK DRIVER, TRANSP. | Yes / No / NA | | | | | View 0 |
| RANDOM WEIGHT CHECK IS TO BE DONE FROM PALLET (04 BAGS AT LEAST). | Yes / No / NA | | | | | View 0 |
| WEIGHT LIMITS ARE - MIN 25.15/MAX 25.30 | Yes / No / NA | | | | | View 0 |
| SHIFT | | | | | | View 0 |
| GRADE | | | | | | View 0 |
| QUATITY | | | | | | View 0 |
| PACK SLIP # | | | | | | View 0 |

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# Data Visualization

2025-05-04 00:00 - 2025-06-02 15:24

humidity

Search

Reset Chart

Reset

- LAB
  - LAB
  - Chemical Store Room
    - Chemical Store Room
    - *Humidity*
      - *738_5369*
  - Main Lab
    - VCM/PVC/UTY Lab
    - *Humidity*
      - *735_5359*
- Operations
  - Operating Areas
  - PVC-I
    - PVC-I
    - PVC-I Digital logging
      - Digital logging
      - DCS
        - DCS Monitoring
        - PVC-I/II BE DCS Log sheet Process Area
          - OPR/ROP/PVC1/DCS-02
          - PVC-II DCS
            - *AI-1511 | Humidity*
              - *2387_48888*
  - PVC-III
    - PVC-III
    - Misc
      - Miscellaneous (To be moved in future)
      - PVC-3 first hour checklist for DCS F.E
        - *Check CW temp trend of last 3 days, current hu*
          - *1968_27820*
      - Ambient
        - Ambient

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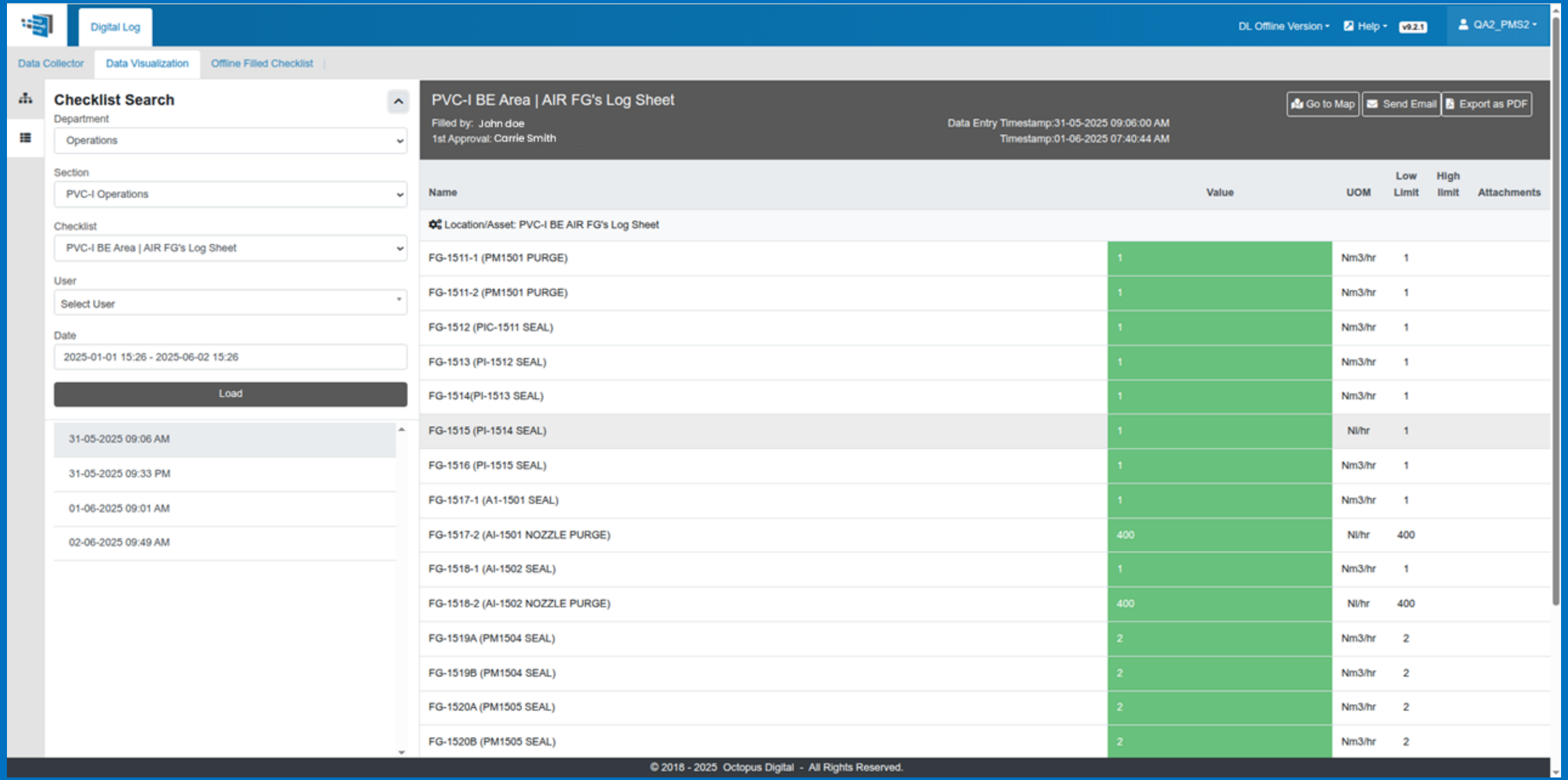
Digital Log
DL Offline Version
Help
v9.2.1
QA2_PMS2
Data Collector
Data Visualization
Offline Filled Checklist
Checklist Search
Department
Operations
Section
PVC-I Operations
Checklist
PVC-I BE Area | AIR FG's Log Sheet
User
Select User
Date
2025-01-01 15:26 - 2025-06-02 15:26
Load
31-05-2025 09:06 AM
31-05-2025 09:33 PM
01-06-2025 09:01 AM
02-06-2025 09:49 AM
PVC-I BE Area | AIR FG's Log Sheet
Filled by: John doe
1st Approval: Carrie Smith
Data Entry Timestamp:31-05-2025 09:06:00 AM
Timestamp:01-06-2025 07:40:44 AM
Go to Map
Send Email
Export as PDF
Name
Value
UOM
Low Limit
High limit
Attachments
Location/Asset: PVC-I BE AIR FG's Log Sheet
FG-1511-1 (PM1501 PURGE) 1 Nm3/hr 1
FG-1511-2 (PM1501 PURGE) 1 Nm3/hr 1
FG-1512 (PIC-1511 SEAL) 1 Nm3/hr 1
FG-1513 (PI-1512 SEAL) 1 Nm3/hr 1
FG-1514(PI-1513 SEAL) 1 Nm3/hr 1
FG-1515 (PI-1514 SEAL) 1 Nl/hr 1
FG-1516 (PI-1515 SEAL) 1 Nm3/hr 1
FG-1517-1 (A1-1501 SEAL) 1 Nm3/hr 1
FG-1517-2 (AI-1501 NOZZLE PURGE) 400 Nl/hr 400
FG-1518-1 (AI-1502 SEAL) 1 Nm3/hr 1
FG-1518-2 (AI-1502 NOZZLE PURGE) 400 Nl/hr 400
FG-1519A (PM1504 SEAL) 2 Nm3/hr 2
FG-1519B (PM1504 SEAL) 2 Nm3/hr 2
FG-1520A (PM1505 SEAL) 2 Nm3/hr 2
FG-1520B (PM1505 SEAL) 2 Nm3/hr 2
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PVC-I Operations

Checklist

PVC-I BE Area | First hour Checklist

User

Select User

Date

2025-01-01 15:26 - 2025-06-02 15:26

Load

22-03-2025 04:22 AM

26-03-2025 09:01 AM

27-03-2025 07:46 AM

27-03-2025 09:43 PM

28-03-2025 07:36 AM

28-03-2025 05:34 PM

29-03-2025 11:34 AM

29-03-2025 06:00 PM

30-03-2025 08:11 AM

30-03-2025 09:23 PM

| Name | Value | UOM | Low Limit | High limit | Attachments |
|---|---|---|---|---|---|
| Location/Asset: PVC-I BE First Hour Checklist | | | | | |
| PU-1501 A discharge stand by strainer is clean and available | Yes | | | | |
| HE-1501 Cold side bypass valve is closed | Yes | | | | |
| HE-1501 Hot side bypass valve is closed | Yes | | | | |
| CE-1501 A/B GB Oil Unit stand by Filter is clean and available | Yes | | | | |
| Centrifuge flushing Manual valves are closed and amperes are normal | Yes | | | | |
| Off Spec Bag level is <70% | Yes | | | | |
| PU-1701 A/B standby pump is available and healthy | Yes | | | | |
| VE-1801 O/L line towards VG header is isolate | Yes | | | | |
| TW-1801 bypass valve is isolate | Yes | | | | |
| Pit-1301 Level is <70% and not overflowing in storm channel. | Yes | | | | |
| SR-1502 is flushed / drained and ensure SR-1502 is overflowing | Yes | | | | |
| System & Process alarm summary checked. There is not any hardware or process alarm or failure i.e. no threat to process & control system | Yes | | | | |
| All schematics & parameters have been checked via scrolling one by one and found ok. Controllers mode is Auto / Cascade / Normal etc. | Yes | | | | |
| No safety / permissive interlock is bypassed, or Alarm disabled. No PV source manual / track. No alarm on Gas panel or emergency panel. | Yes | | | | |
| Dryer / Stripper profile checked & Trend # 51 / 64 monitoring done. Emergency wash sequence is running normal. Vent velocity checked | Yes | | | | |
| SCD Board checked, and defeat extended if applicable. SIC logbook read and signed. DCS Area housekeeping / upkeeping done | Yes | | | | |
| DCS Keys removed / normal operator mode. There is no Engineer or Manager level password is applied. | Yes | | | | |

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## Checklists

Type a keyword to filter

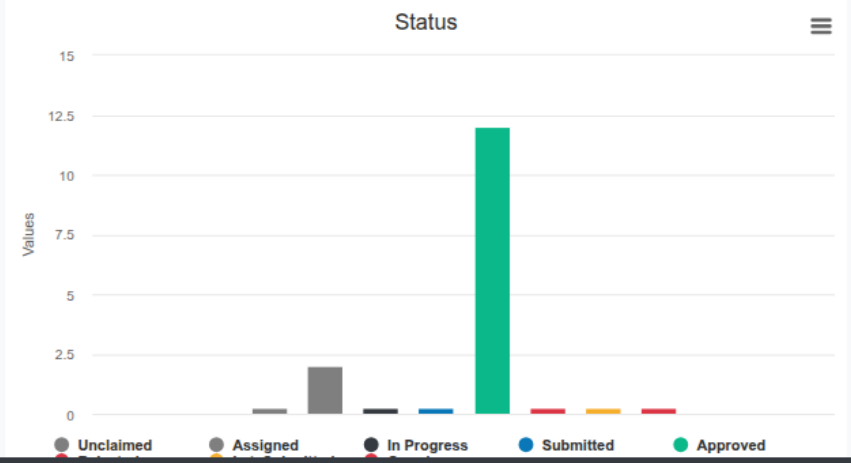
- 40-MESHING CHECKLIST-(EAST)
- 40-MESHING CHECKLIST-(WEST)
- B.E Area IA SG's Visibility (OPR-PVC-3-LOG-16) REV-01
- CA DCS BE 1000,1100,1300,1800 Area | Log Sheet
- CA DCS BE 1750 Area | Log sheet
- CA DCS BE | Evaporation Unit Startup Checklist
- CA DCS FE 1200 Area | (RMS) Log Sheet
- CA DCS FE 1400 Area | C-1460 log sheet
- CA DCS FE 1600, 1650 Area | Log Sheet
- CA DCS FE A-1400, A-1480 & A-1450 | Log Sheet
- CA DCS FE, BE | 1st Hour Operation Checklist
- CHECKLIST FOR EMERGENCY STOP SWITCHES/ PM&S-2
- DAILY FORK-LIFT DOWN TIME
- DAILY FORK-LIFT DOWN TIME PM&S-(2)
- DAILY LINE OPERATION CHECKLIST
- DAILY WASTE DISPOSAL RECORD

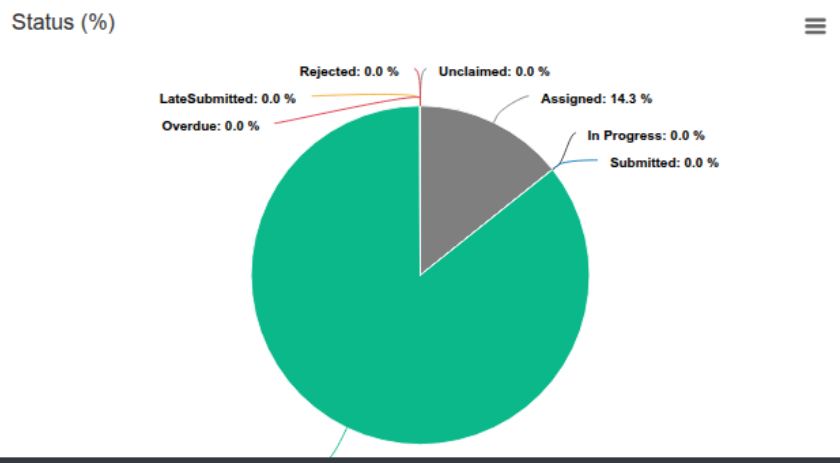
General | Details

Shift Time

00:00:00 - 23:59:00 Search

| | | | |
|---|---|---|---|
| 0 Unclaimed | 2 Assigned | 0 In Progress | 0 Submitted |
| 12 Approved | 0 Rejected | 0 Late Filled | 0 Overdue |

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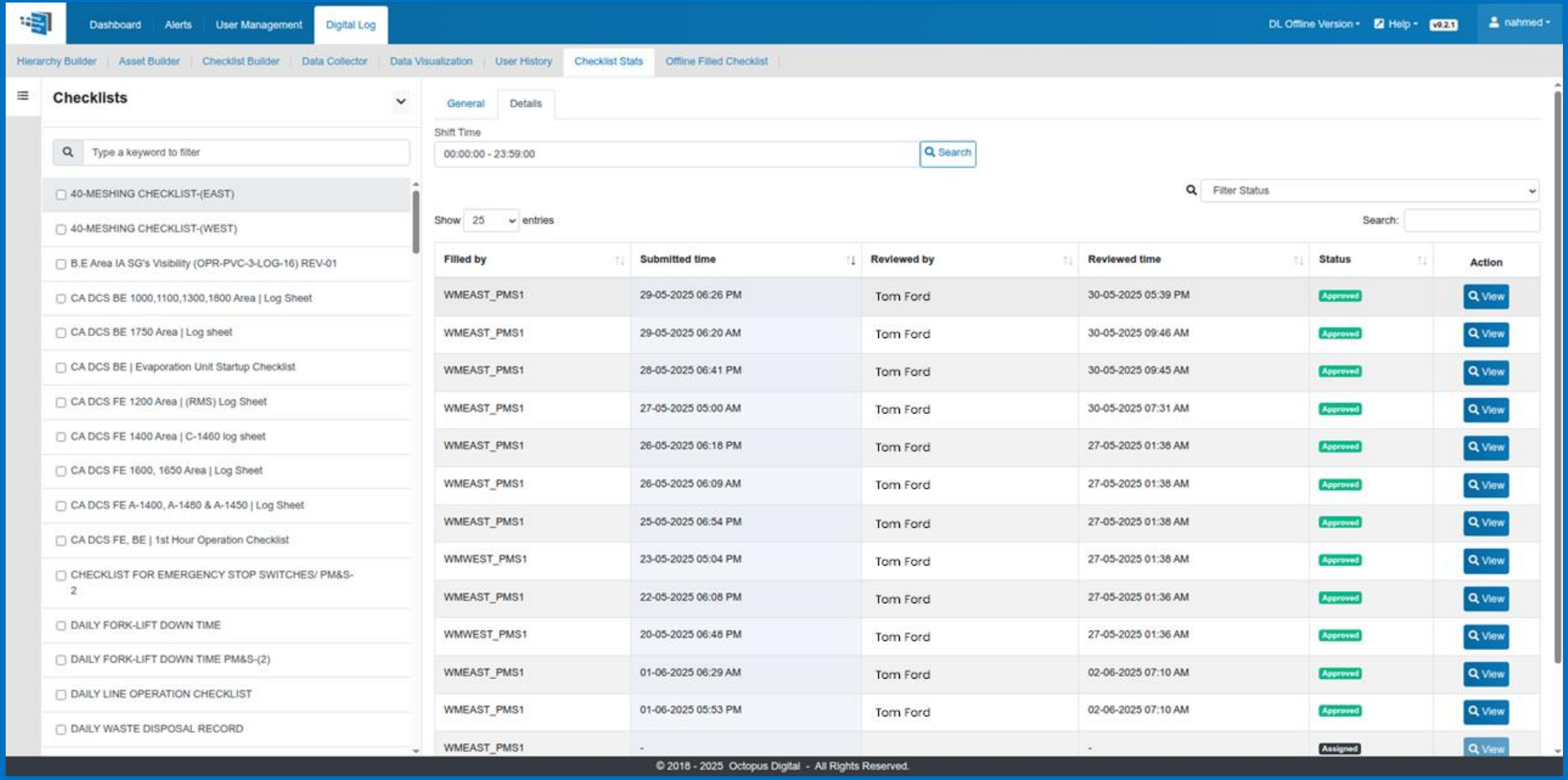
Dashboard
Alerts
User Management
Digital Log
DL Offline Version
Help
v9.2.1
nahmed
Hierarchy Builder
Asset Builder
Checklist Builder
Data Collector
Data Visualization
User History
Checklist Stats
Offline Filled Checklist
Checklists
Type a keyword to filter
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40-MESHING CHECKLIST-(WEST)
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CA DCS FE 1400 Area | C-1460 log sheet
CA DCS FE 1600, 1650 Area | Log Sheet
CA DCS FE A-1400, A-1480 & A-1450 | Log Sheet
CA DCS FE, BE | 1st Hour Operation Checklist
CHECKLIST FOR EMERGENCY STOP SWITCHES/ PM&S-2
DAILY FORK-LIFT DOWN TIME
DAILY FORK-LIFT DOWN TIME PM&S-(2)
DAILY LINE OPERATION CHECKLIST
DAILY WASTE DISPOSAL RECORD
General
Details
Shift Time
00:00:00 - 23:59:00
Search
Filter Status
Show 25 entries
Search:
Filled by
Submitted time
Reviewed by
Reviewed time
Status
Action
WMEAST_PMS1 29-05-2025 06:26 PM Tom Ford 30-05-2025 05:39 PM Approved View
WMEAST_PMS1 29-05-2025 06:20 AM Tom Ford 30-05-2025 09:46 AM Approved View
WMEAST_PMS1 28-05-2025 06:41 PM Tom Ford 30-05-2025 09:45 AM Approved View
WMEAST_PMS1 27-05-2025 05:00 AM Tom Ford 30-05-2025 07:31 AM Approved View
WMEAST_PMS1 26-05-2025 06:18 PM Tom Ford 27-05-2025 01:38 AM Approved View
WMEAST_PMS1 26-05-2025 06:09 AM Tom Ford 27-05-2025 01:38 AM Approved View
WMEAST_PMS1 25-05-2025 06:54 PM Tom Ford 27-05-2025 01:38 AM Approved View
WMWEST_PMS1 23-05-2025 05:04 PM Tom Ford 27-05-2025 01:38 AM Approved View
WMEAST_PMS1 22-05-2025 06:08 PM Tom Ford 27-05-2025 01:36 AM Approved View
WMWEST_PMS1 20-05-2025 06:48 PM Tom Ford 27-05-2025 01:36 AM Approved View
WMEAST_PMS1 01-06-2025 06:29 AM Tom Ford 02-06-2025 07:10 AM Approved View
WMEAST_PMS1 01-06-2025 05:53 PM Tom Ford 02-06-2025 07:10 AM Approved View
WMEAST_PMS1 - - Assigned View
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## Checklists

4 / 30 View

Type a keyword to filter

- [x] 40-MESHING CHECKLIST-(EAST)
- [ ] 40-MESHING CHECKLIST-(WEST)
- [x] B.E Area IA SG's Visibility (OPR-PVC-3-LOG-16) REV-01
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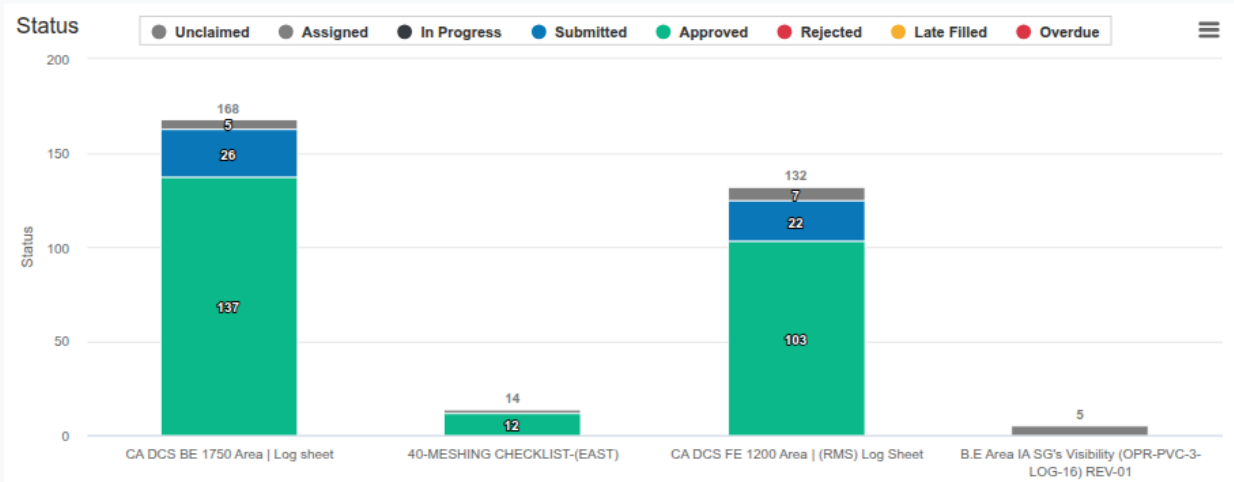
- [ ] DAILY FORK-LIFT DOWN TIME PM&S-(2)
- [ ] DAILY LINE OPERATION CHECKLIST
- [ ] DAILY WASTE DISPOSAL RECORD

General | Details

Shift Time

00:00:00 - 23:59:00 Search

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