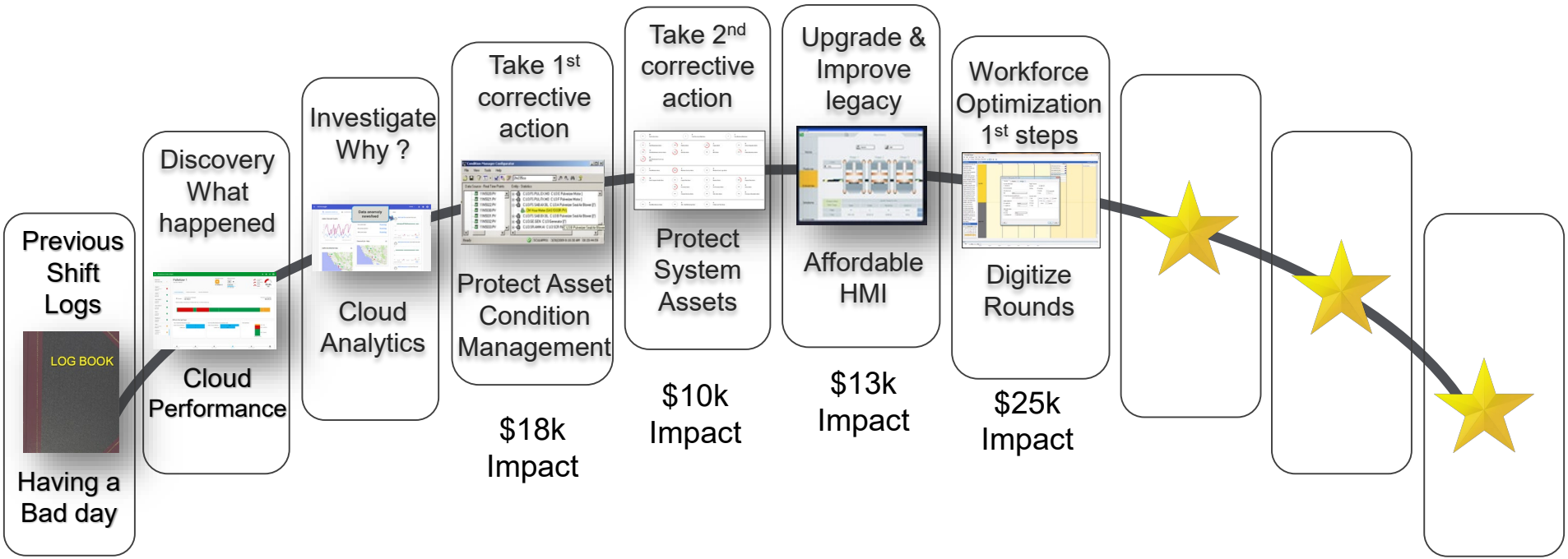
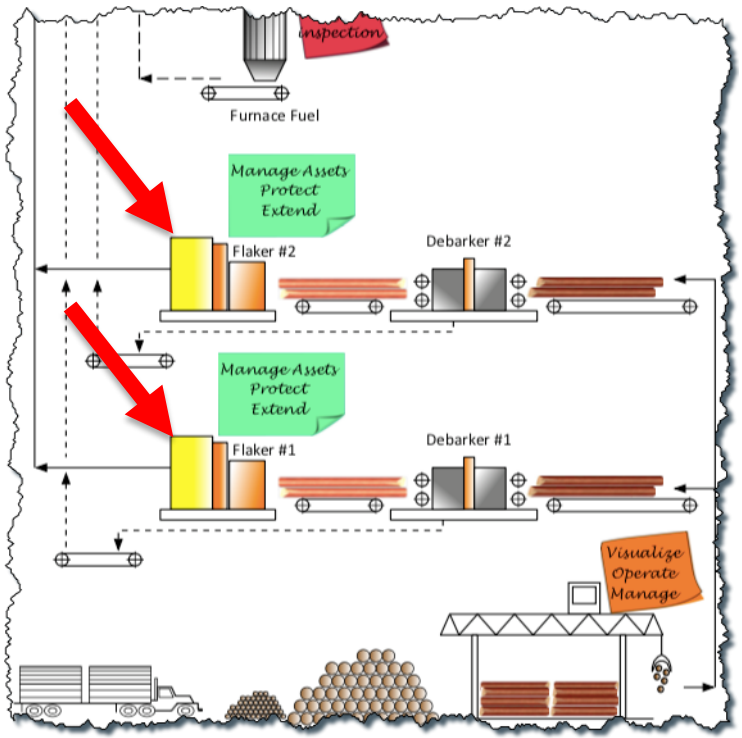
Our journey today – the cadence of the shift

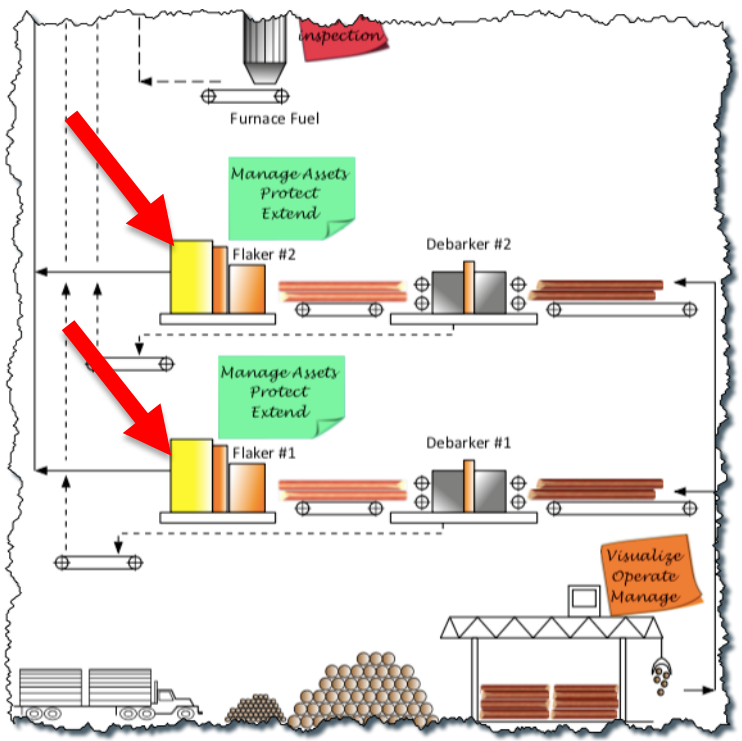
Steps toward being more Digitized



Critical Asset Protection – High Risk Failure Prevention



How we're addressing the issue

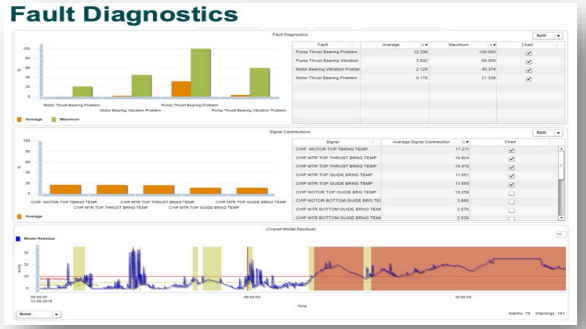


1. Leverage instrumentation to capture data
2. Combine with maintenance data, build a baseline of good operation
3. Monitor using Advanced Predictive tools to schedule inspection or maintenance

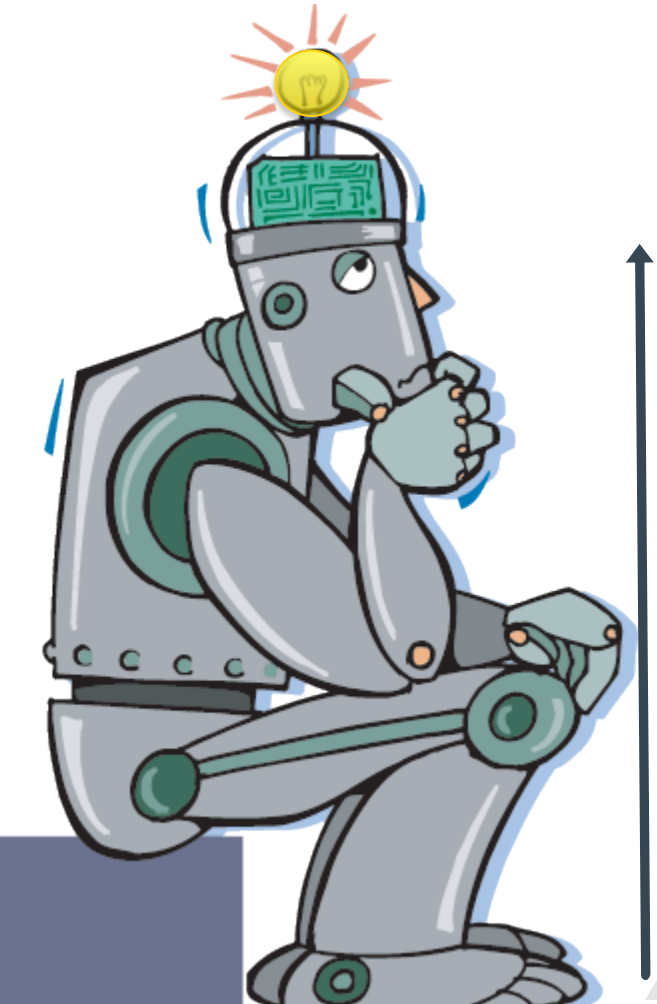
Lets take a look

Industry 4.0

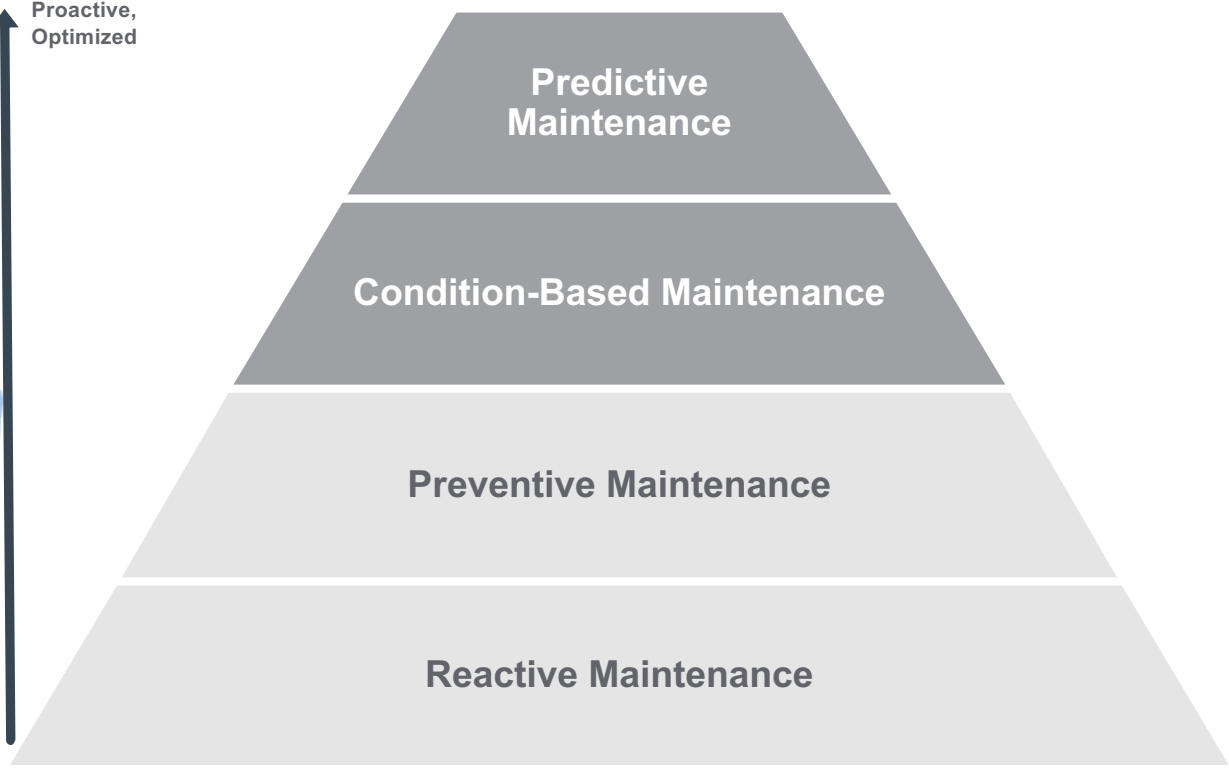
Driving Operational Results Through Digitization



It's a Journey



Strategic,
Proactive,
Optimized



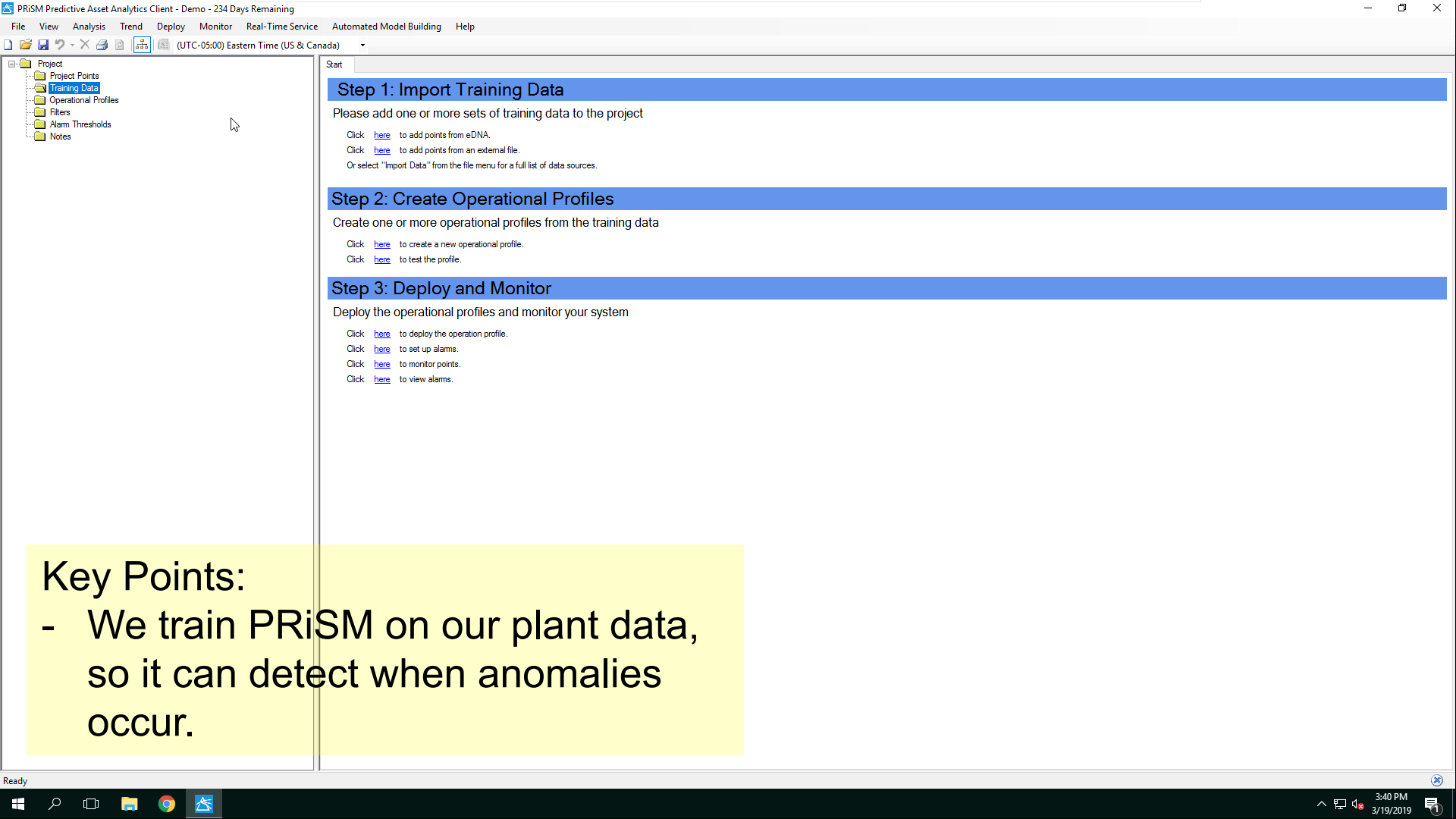
Lets take a look

WISH LIST

1

2

Learn the relationships between all of our data points


PRiSM Predictive Asset Analytics Client - Demo - 234 Days Remaining
File
View
Analysis
Trend
Deploy
Monitor
Real-Time Service
Automated Model Building
Help
(UTC-05:00) Eastern Time (US & Canada)
Project
Project Points
Training Data
Operational Profiles
Filters
Alarm Thresholds
Notes
Start
Step 1: Import Training Data
Please add one or more sets of training data to the project
Click here to add points from eDNA.
Click here to add points from an external file.
Or select "Import Data" from the file menu for a full list of data sources.
Step 2: Create Operational Profiles
Create one or more operational profiles from the training data
Click here to create a new operational profile.
Click here to test the profile.
Step 3: Deploy and Monitor
Deploy the operational profiles and monitor your system
Click here to deploy the operation profile.
Click here to set up alarms.
Click here to monitor points.
Click here to view alarms.
Key Points:
- We train PRiSM on our plant data, so it can detect when anomalies occur.
Ready
3:40 PM
3/19/2019

PRiSM Predictive Asset Analytics Client - Demo - 234 Days Remaining

File View Analysis Trend Deploy Monitor Real-Time Service Automated Model Building Help

(UTC-05:00) Eastern Time (US & Canada)

- Project
  - Project Points
  - Training Data
  - Operational Profiles
  - Filters
  - Alarm Thresholds
  - Notes

Start

Step 1: Import Training Data

Please add one or more sets of training data to the project

Click here to add points from eDNA.
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Step 2: Create Operational Profiles

Create one or more operational profiles from the training data

Click here to create a new operational profile.
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Deploy the operational profiles and monitor your system

Click here to deploy the operation profile.
Click here to set up alarms.
Click here to monitor points.
Click here to view alarms.

Ready

3:40 PM
3/19/2019

PRiSM Predictive Asset Analytics Client - Demo - 234 Days Remaining

File View Analysis Trend Deploy Monitor Real-Time Service Automated Model Building Help

(UTC-05:00) Eastern Time (US & Canada)

- Project
  - Project Points
    - Flaker Infeed Rate
    - Flaker Inner Bearing Temp
    - Flaker Motor Amps
    - Flaker Motor Inner Bearing Temp
    - Flaker Motor Outer Bearing Temp
    - Flaker Motor Speed
    - Flaker Outer Bearing Temp
    - Flaker Speed
  - Training Data
    - Flaker Training D[illegible]a.csv
  - Operational Profiles
  - Filters
  - Alarm Thresholds
  - Notes

PRiSM Predictive Asset Analytics Client - Demo - 234 Days Remaining

File View Analysis Trend Deploy Monitor Real-Time Service Automated Model Building Help

Correlation
Statistics
Visual Comparison
New Operational Profile

Eastern Time (US & Canada)

Project
Proje
Flaker Motor Amps
Flaker Motor Inner Bearing Temp
Flaker Motor Outer Bearing Temp
Flaker Motor Speed
Flaker Outer Bearing Temp
Flaker Speed
Training Data
Flaker Training Data.csv
Operational Profiles
Filters
Alarm Thresholds
Notes

Trend: Training Data

Select Data Set to Graph

Flaker Training Data.csv

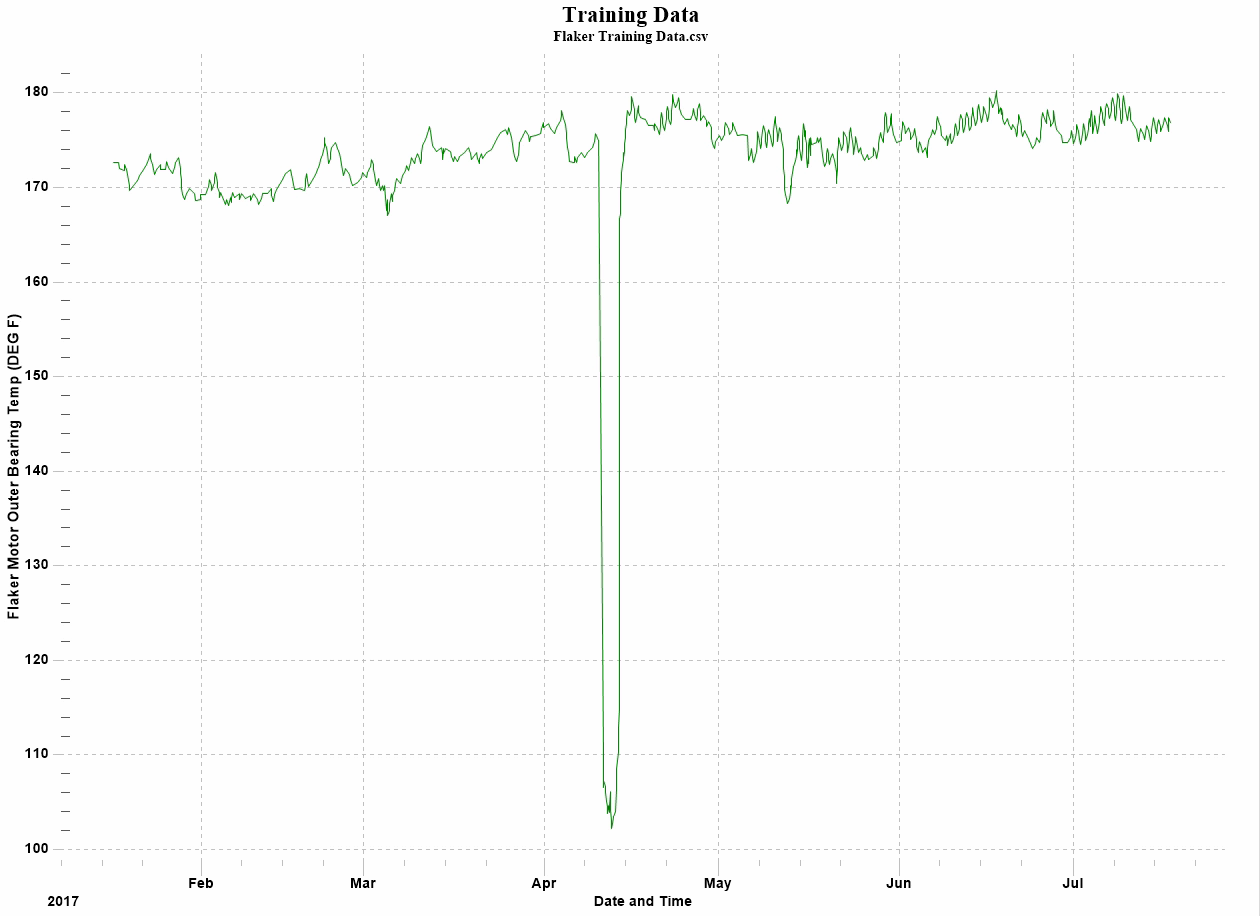
Select Points to Graph

Flaker Infeed Rate
Flaker Inner Bearing Temp
Flaker Motor Amps
Flaker Motor Inner Bearing Temp
Flaker Motor Outer Bearing Temp
Flaker Motor Speed
Flaker Outer Bearing Temp
Flaker Speed

Display Data Editing

Select Data to...
Include
Exclude
Delete
Draw mode:

Data Selection Mode



Deleted 10 records

3:44 PM
3/19/2019

PRiSM Predictive Asset Analytics Client - Demo - 234 Days Remaining

File View Analysis Trend Deploy Monitor Real-Time Service Automated Model Building Help

(UTC-05:00) Eastern Time (US & Canada)

- Project
  - Project Points
    - Flaker Infeed Rate
    - Flaker Inner Bearing Temp
    - Flaker Motor Amps
    - Flaker Motor Inner Bearing Temp
    - Flaker Motor Outer Bearing Temp
    - Flaker Motor Speed
    - Flaker Outer Bearing Temp
    - Flaker Speed
  - Training Data
    - Flaker Training Data.csv
  - Operational Profiles
  - Filters
  - Alarm Thresholds
  - Notes

Trend: Training Data | Correlation: Training Data

Training Sets

- [ ] All Training Sets
- [x] Flaker Training Data.csv

Point for X-Axis

- Flaker Infeed Rate
- **Flaker Inner Bearing Temp**
- Flaker Motor Amps
- Flaker Motor Inner Bearing Temp
- Flaker Motor Outer Bearing Temp
- Flaker Motor Speed
- Flaker Outer Bearing Temp
- Flaker Speed

Point for Y-Axis

- Flaker Infeed Rate
- Flaker Inner Bearing Temp
- Flaker Motor Amps
- Flaker Motor Inner Bearing Temp
- Flaker Motor Outer Bearing Temp
- Flaker Motor Speed
- **Flaker Outer Bearing Temp**
- Flaker Speed

Display Options

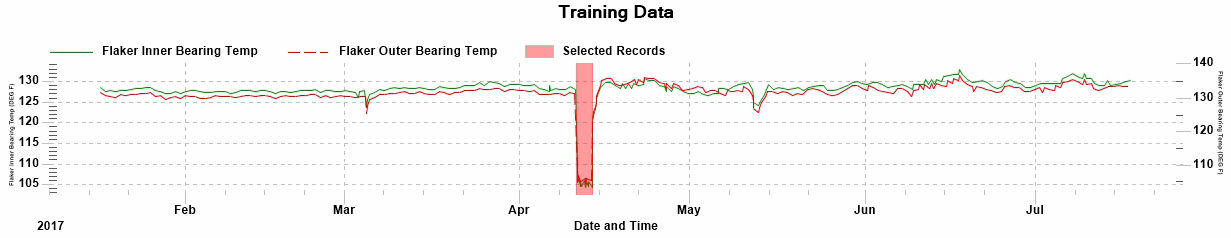
- [x] Show Overview
- Excluded Data: Show
- Filtered Data: Show
- Outliers: Show 3.0 % ...

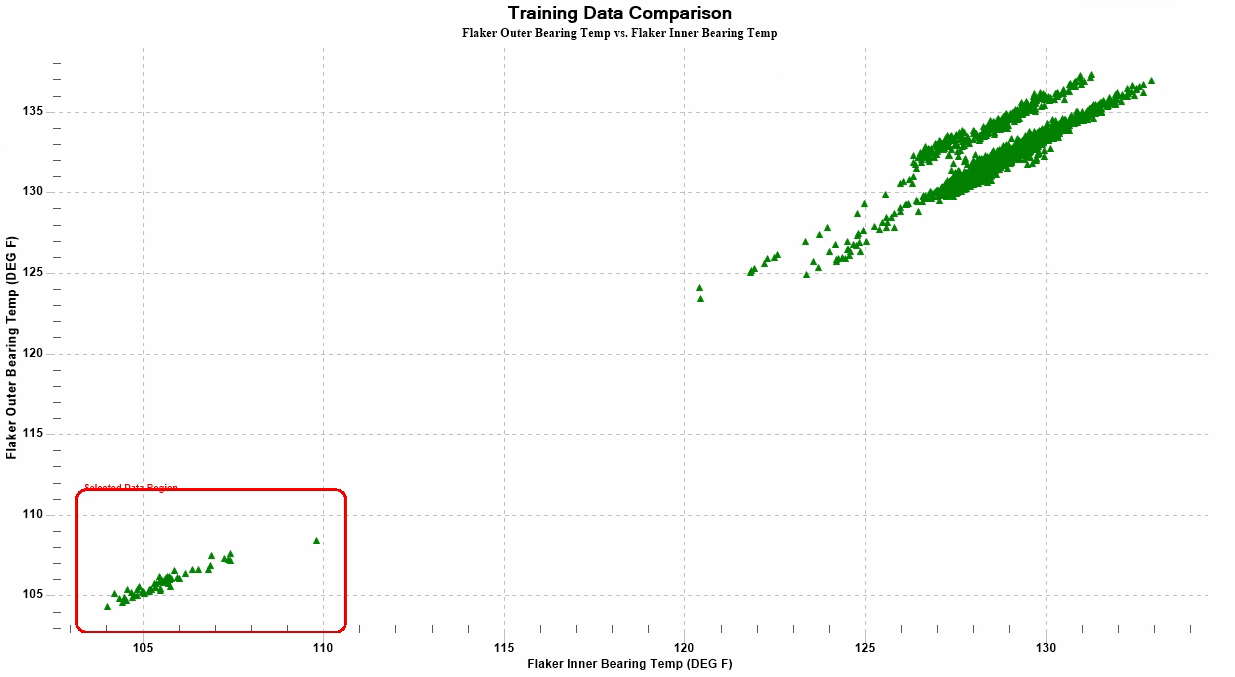
Select Data To...

Overview | Comparison

- [ ] Include
- [ ] Exclude
- [ ] Delete

Draw mode:





67 Records Excluded

3:44 PM
3/19/2019

PRiSM Predictive Asset Analytics Client - Demo - 234 Days Remaining

File View Analysis Trend Deploy Monitor Real-Time Service Automated Model Building Help

(UTC-05:00) Eastern Time (US & Canada)

Project
- Project Points
  - Flaker Infeed Rate
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  - Flaker Motor Speed
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- Training Data
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Trend: Training Data | Correlation: Training Data

Training Sets
- All Training Sets
- Flaker Training Data.csv

Point for X-Axis
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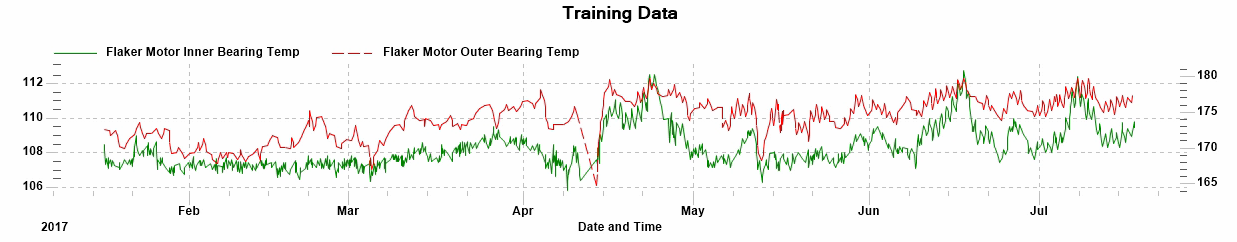
- Flaker Inner Bearing Temp
- Flaker Motor Amps
- Flaker Motor Inner Bearing Temp
- Flaker Motor Outer Bearing Temp
- Flaker Motor Speed
- Flaker Outer Bearing Temp
- Flaker Speed

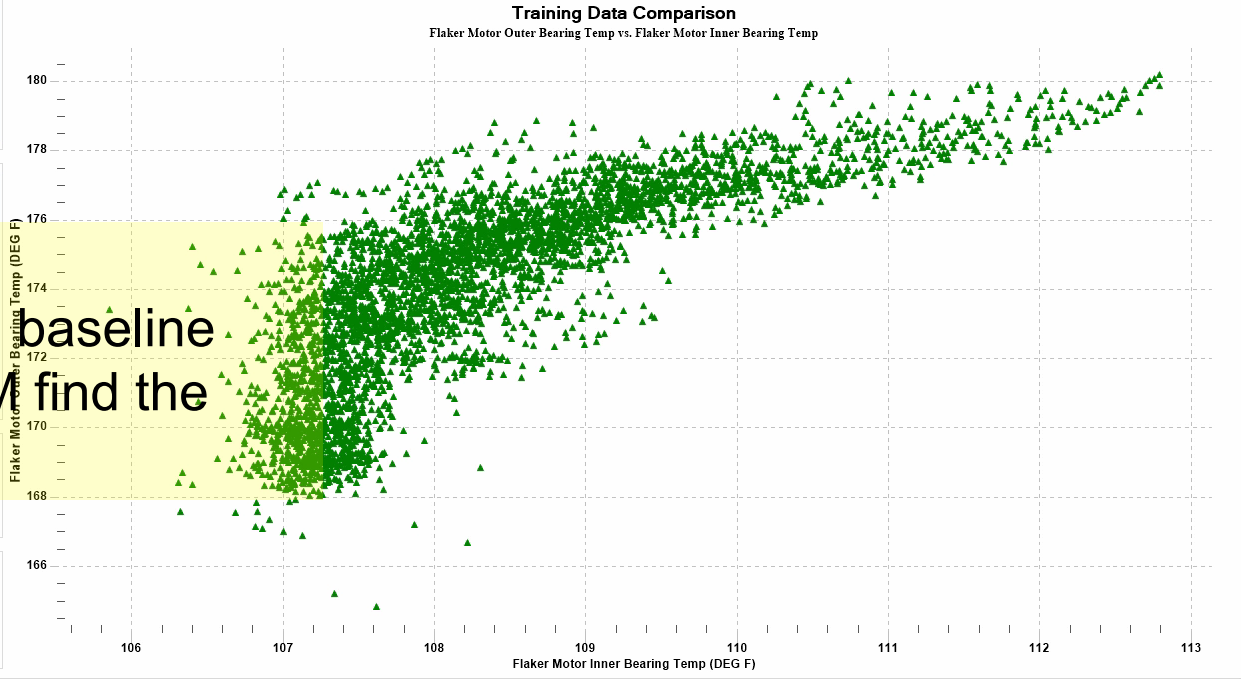
Point for Y-Axis
- Flaker Infeed Rate
- Flaker Inner Bearing Temp
- Flaker Motor Amps
- Flaker Motor Inner Bearing Temp
- Flaker Motor Outer Bearing Temp
- Flaker Motor Speed
- Flaker Outer Bearing Temp
- Flaker Speed

Display Options
- Excluded Data: Show
- Filtered Data: Show
- Outliers: Show 3.0 %

Select Data To...
Overview | Comparison
- Include
- Exclude
- Delete

Draw mode:



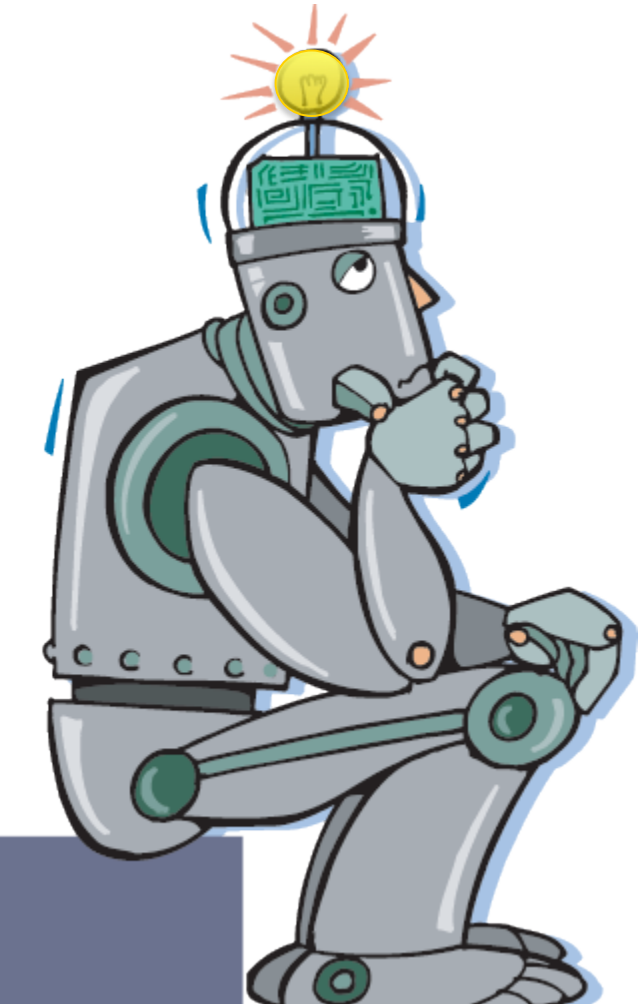


Key Points:

- Once we've cleansed the baseline data, we can have PRiSM find the underlying patterns.

Trend

3:45 PM
3/19/2019

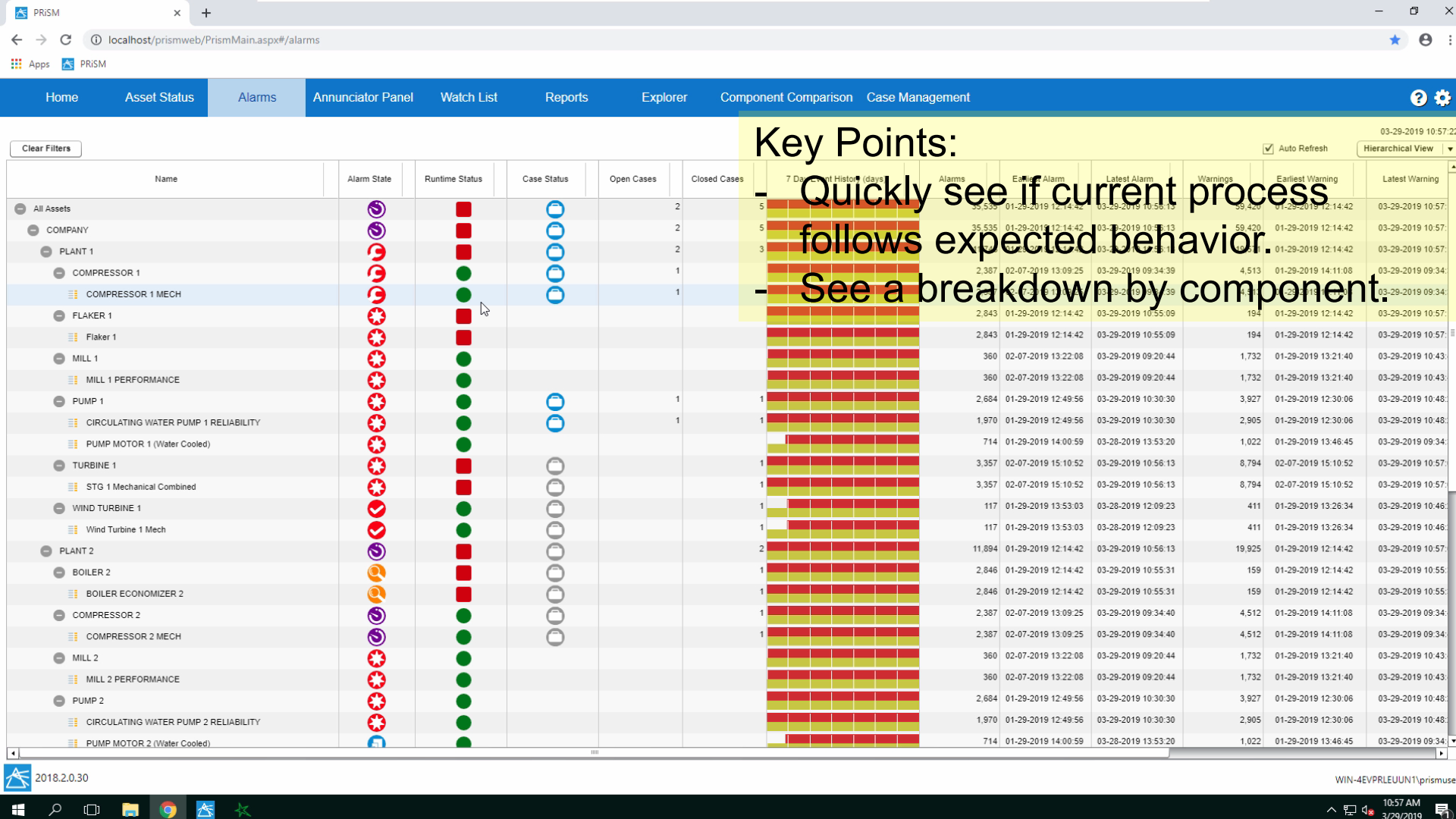


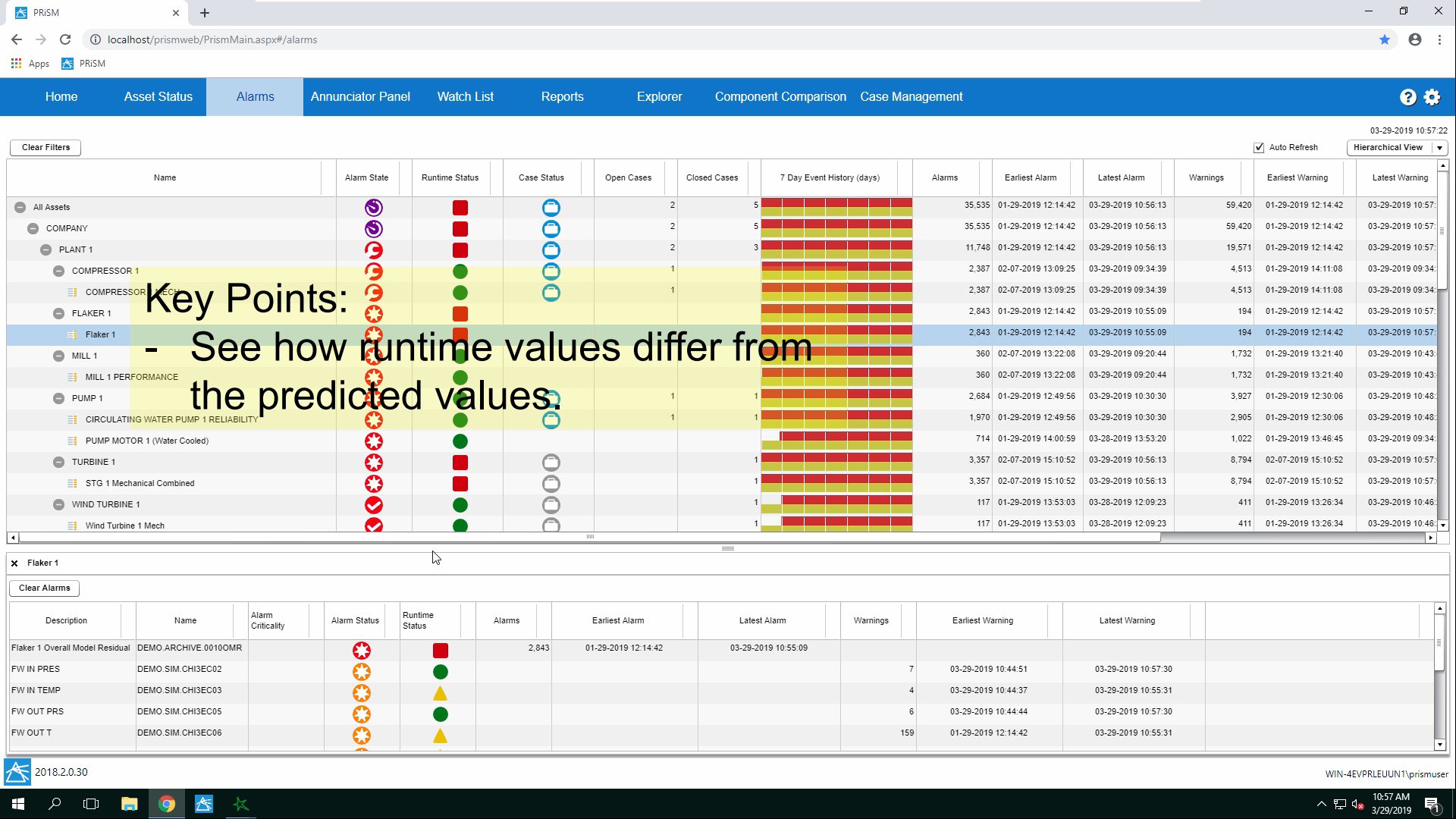
Lets take a look

WISH LIST

1. Learn the relationships between all of our data points

2. An easy way to monitor the equipment long term


PRiSM
localhost/prismweb/PrismMain.aspx#/alarms
Apps
PRiSM
Home
Asset Status
Alarms
Annunciator Panel
Watch List
Reports
Explorer
Component Comparison
Case Management
Clear Filters
03-29-2019 10:57:22
Auto Refresh
Hierarchical View
Name
Alarm State
Runtime Status
Case Status
Open Cases
Closed Cases
7 Day Event History (days)
Alarms
Earliest Alarm
Latest Alarm
Warnings
Earliest Warning
Latest Warning
All Assets
COMPANY
PLANT 1
COMPRESSOR 1
COMPRESSOR 1 MECH
FLAKER 1
Flaker 1
MILL 1
MILL 1 PERFORMANCE
PUMP 1
CIRCULATING WATER PUMP 1 RELIABILITY
PUMP MOTOR 1 (Water Cooled)
TURBINE 1
STG 1 Mechanical Combined
WIND TURBINE 1
Wind Turbine 1 Mech
PLANT 2
BOILER 2
BOILER ECONOMIZER 2
COMPRESSOR 2
COMPRESSOR 2 MECH
MILL 2
MILL 2 PERFORMANCE
PUMP 2
CIRCULATING WATER PUMP 2 RELIABILITY
PUMP MOTOR 2 (Water Cooled)
Key Points:
- Quickly see if current process follows expected behavior.
- See a breakdown by component.
2018.2.0.30
WIN-4EVPRLEUUN1\prismuse
10:57 AM
3/29/2019


PRiSM
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Flaker 1
MILL 1
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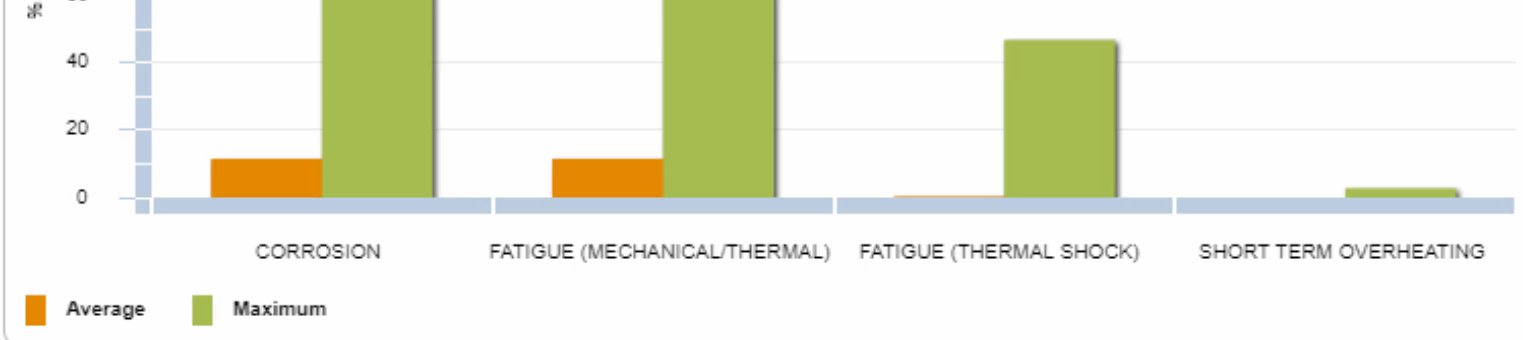
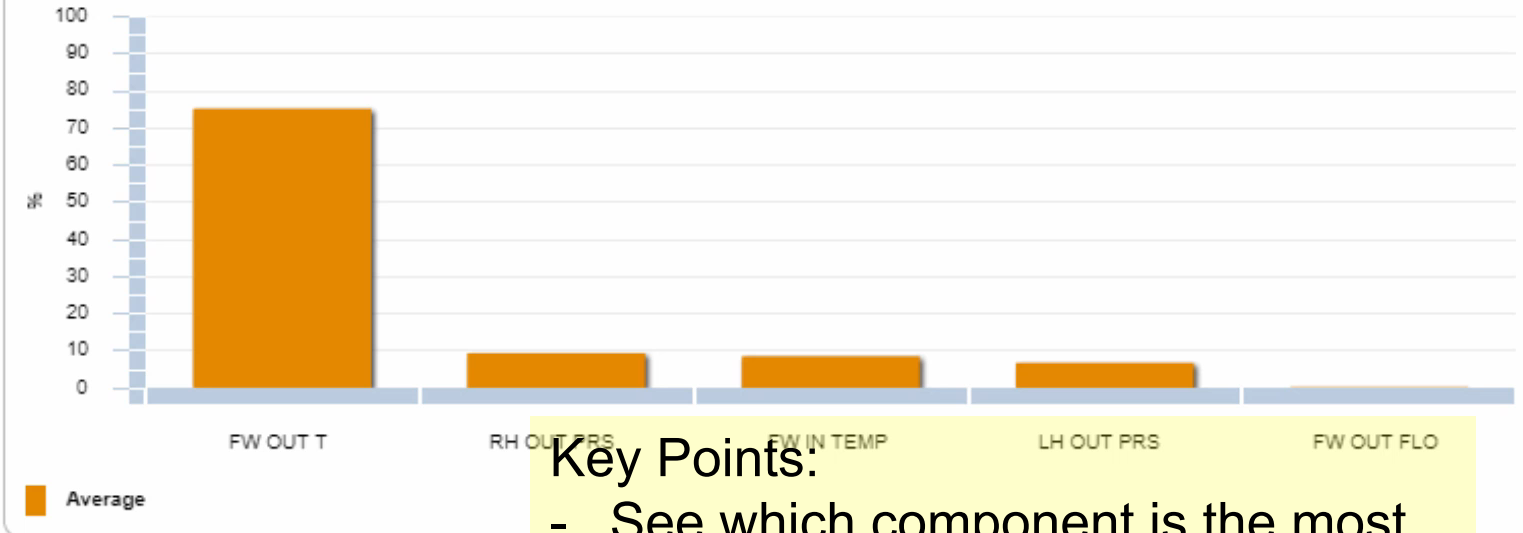
PUMP 1
CIRCULATING WATER PUMP 1 RELIABILITY
PUMP MOTOR 1 (Water Cooled)
TURBINE 1
STG 1 Mechanical Combined
WIND TURBINE 1
Wind Turbine 1 Mech
Key Points:
- See how runtime values differ from the predicted values.
Flaker 1
Clear Alarms
Description
Name
Alarm Criticality
Alarm Status
Runtime Status
Alarms
Earliest Alarm
Latest Alarm
Warnings
Earliest Warning
Latest Warning
Flaker 1 Overall Model Residual
DEMO.ARCHIVE.0010OMR
2,843
01-29-2019 12:14:42
03-29-2019 10:55:09
FW IN PRES
DEMO.SIM.CHI3EC02
7
03-29-2019 10:44:51
03-29-2019 10:57:30
FW IN TEMP
DEMO.SIM.CHI3EC03
4
03-29-2019 10:44:37
03-29-2019 10:55:31
FW OUT PRS
DEMO.SIM.CHI3EC05
6
03-29-2019 10:44:44
03-29-2019 10:57:30
FW OUT T
DEMO.SIM.CHI3EC06
159
01-29-2019 12:14:42
03-29-2019 10:55:31
2018.2.0.30
WIN-4EVPRLEUUN1\prismuser
10:57 AM
3/29/2019



SHORT TERM OVERHEATING

Signal Contributions



Signal
FW OUT T
RH OUT PRS
FW IN TEMP
LH OUT PRS
FW OUT FLO
FW OUT PRS
FW IN PRES
FW IN FLOW
RH OUT T

Key Points:

- See which component is the most likely cause of the problems.

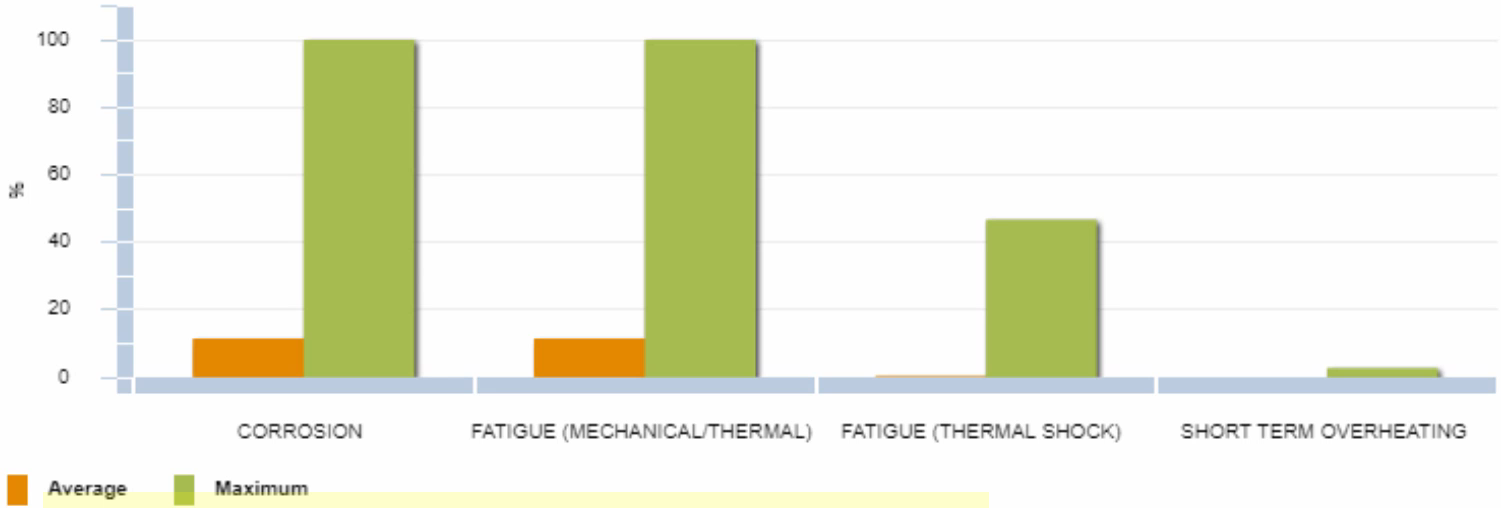
(Overall Model Residual)

Model Residual

nding

Component Comparison | Add Scatter Plot | Clear Ala

Fault Diagnostics

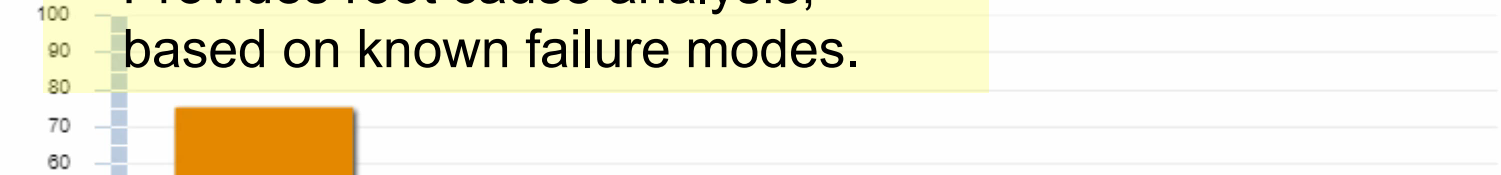


Fault
CORROSION
FATIGUE (MECHANICAL/THERMA
FATIGUE (THERMAL SHOCK)
SHORT TERM OVERHEATING

Key Points:

- Provides root cause analysis, based on known failure modes.

Signal Contributions



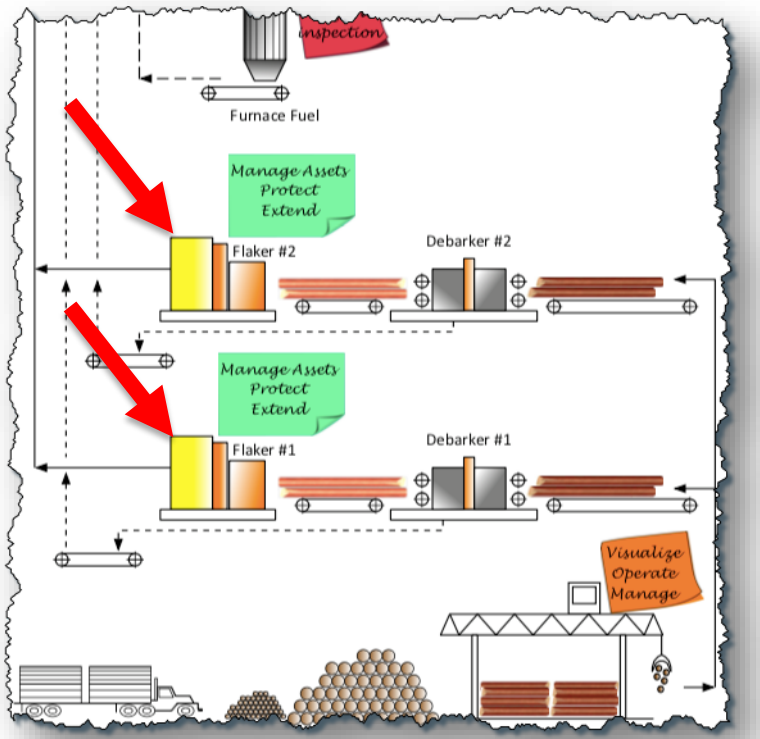
Signal
FW OUT T
RH OUT PRS
FW IN TEMP

Lets take a look

WISH LIST

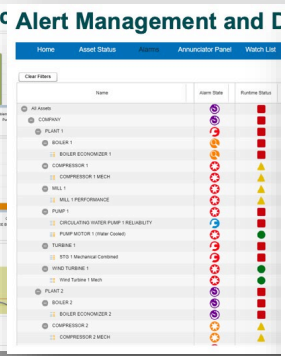
1. Learn the relationships between all of our data points
2. An easy way to monitor the equipment long term

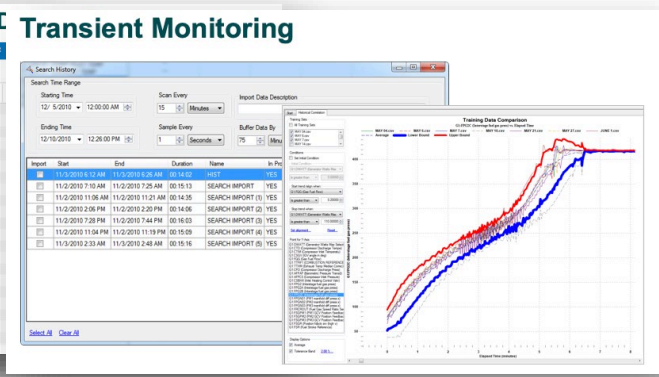
Summary – Predictive Analytics Protects Critical Asset



Prism Predictive Analytics

1. PRiSM provides early warning of equipment health using Advanced Pattern Recognition
2. Simple point and click interface. No need to be a data scientist or programmer
3. Prescriptive – Provides best guess of what to do to correct the problem

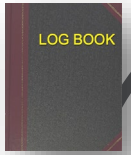




Our journey today – the cadence of the shift

Steps toward being more Digitized

Previous Shift Logs



Having a Bad day

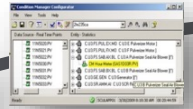
Discovery What happened

Cloud Performance

Investigate Why ?

Cloud Analytics

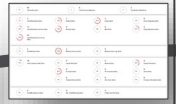
Take 1st corrective action



Protect Asset Condition Management

$18k Impact

Take 2nd corrective action



Protect System Assets

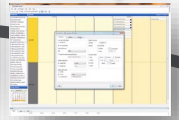
$10k Impact

Upgrade & Improve legacy

Affordable HMI

$13k Impact

Workforce Optimization 1st steps



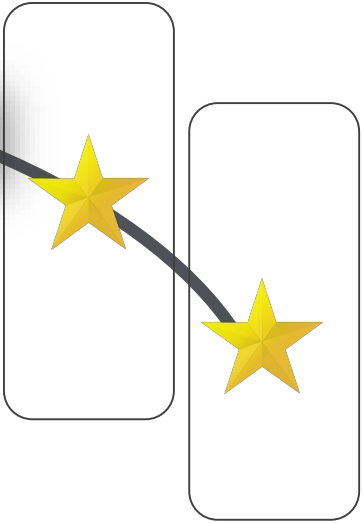
Digitize Rounds

$50k Impact

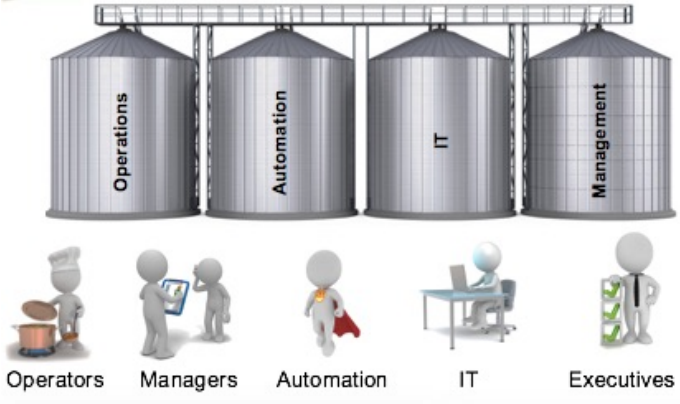
Take 3rd corrective action

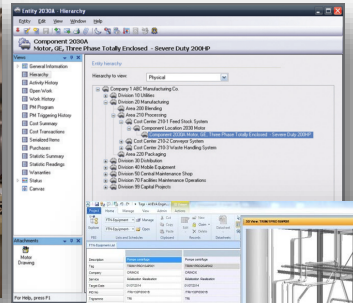
Protect Asset Predictive Analytics

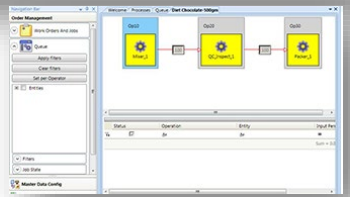
$40 - 250k Impact

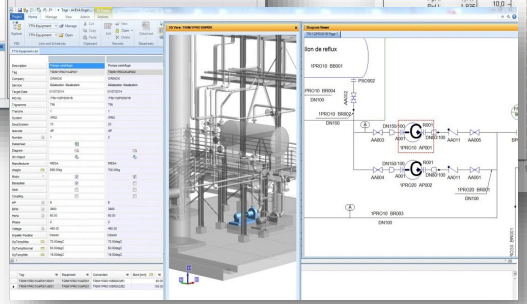


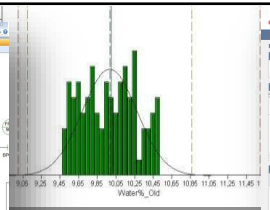
Common IT/OT platform – reduce silo's

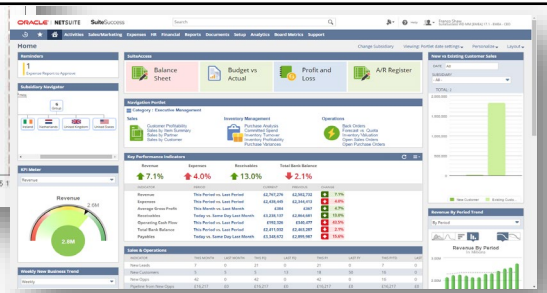






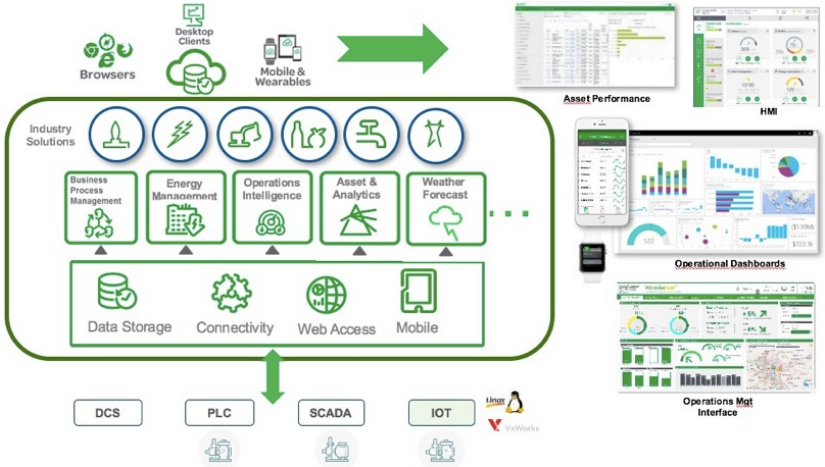






How we're addressing the issue

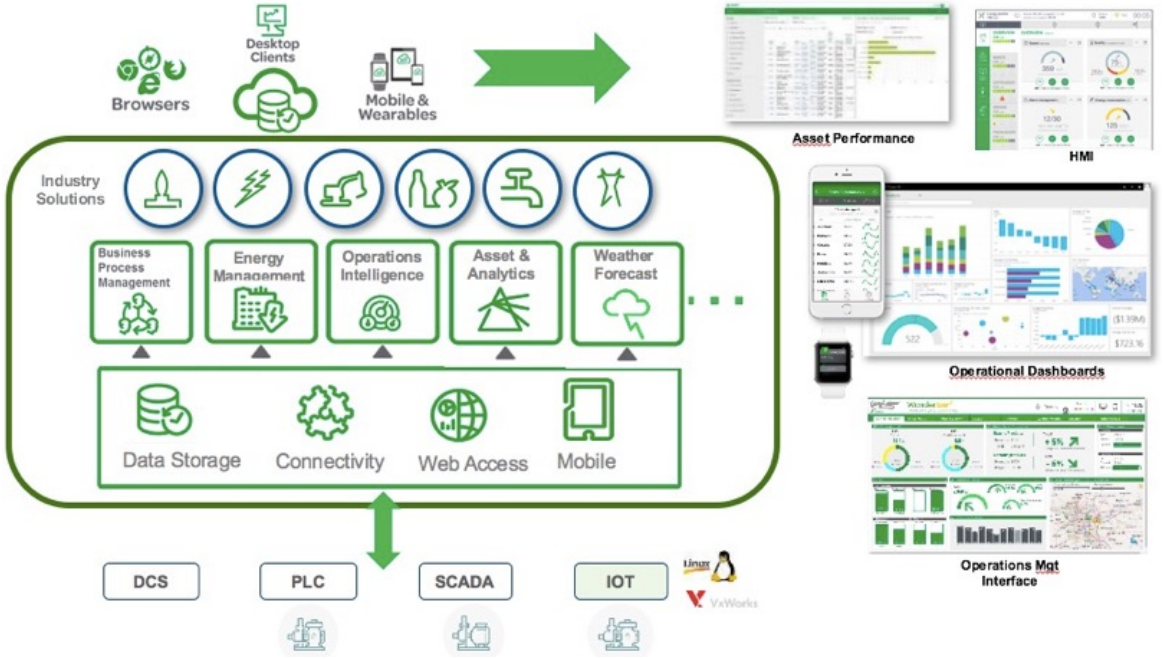
1. Deploy a platform solution that goes beyond HMI, reduce silo, Apps, Mobile
2. One platform for local and corporate that leverages common goals & requirements
3. One platform that our IT and Operations can get behind



Lets take a look

Industry 4.0

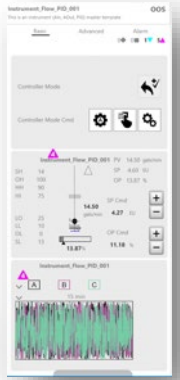
Driving Operational Results Through Digitization

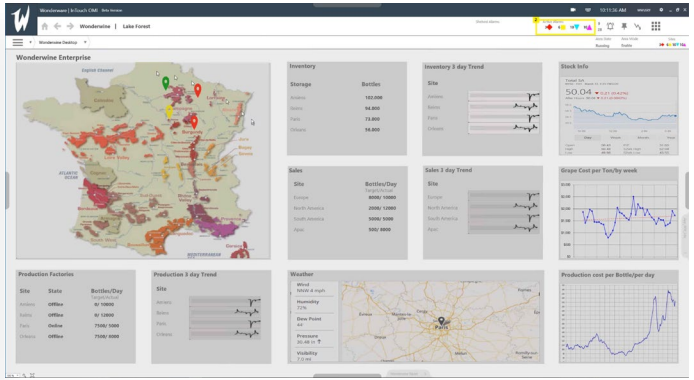


Summary - ‘Digitization’ Common Platform IT/OT

Wonderware Operations Management

1. OMI is the System of systems for building manufacturing solutions. Beyond HMI
2. More functionality, Less work, Easier, Faster, Less risk than before
3. Modernize, Digitize, Mobilize, Context aware Apps, IT/OT friendly

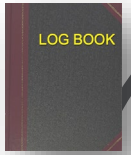




Our journey today – the cadence of the shift

Steps toward being more Digitized

Previous Shift Logs



Having a Bad day

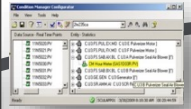
Discovery What happened

Cloud Performance

Investigate Why ?

Cloud Analytics

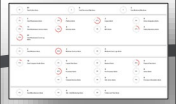
Take 1st corrective action



Protect Asset Condition Management

$18k Impact

Take 2nd corrective action



Protect System Assets

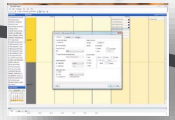
$10k Impact

Upgrade & Improve legacy

Affordable HMI

$13k Impact

Workforce Optimization 1st steps



Digitize Rounds

$50k Impact

Take 3rd corrective action

Protect Asset Predictive Analytics

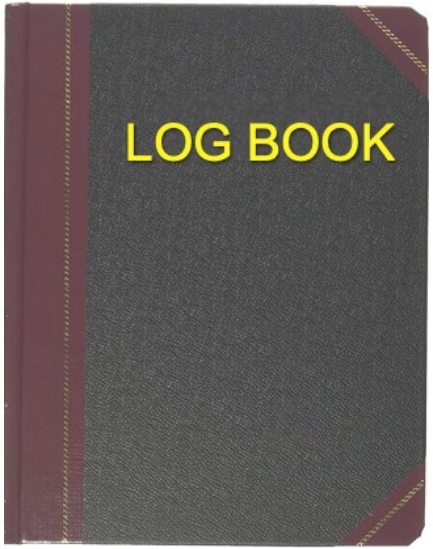
$40 - 250k Impact

Prepare for the future

Operations MGT Beyond HMI

$??k Impact

Establishing Shift Cadence – eLogging & Procedure Automation



61% of paper logbook users admit they have no method of tracking operations procedures

- Silo's of data for shift operations
- Errors in recording
- No enforcement of procedure
- Little accountability

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s to take us

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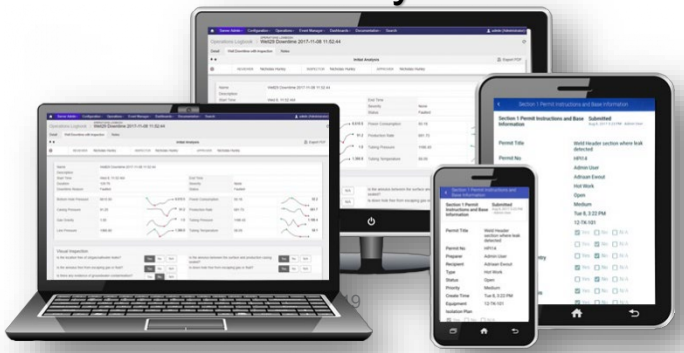
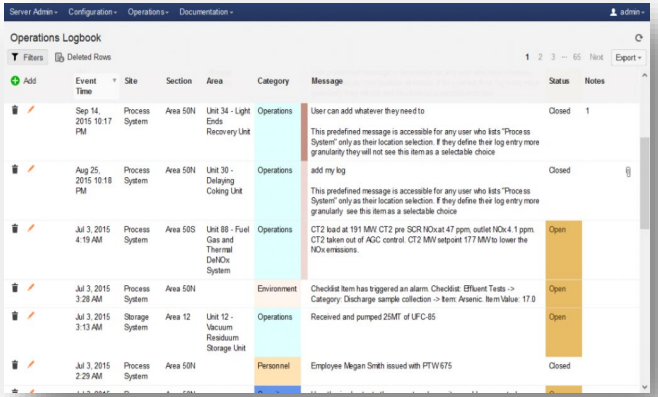
What we envision in the future

Old way

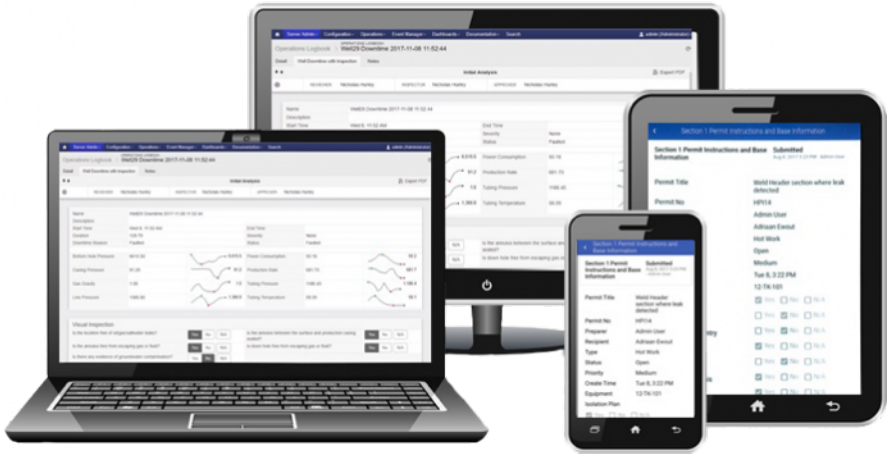
New way

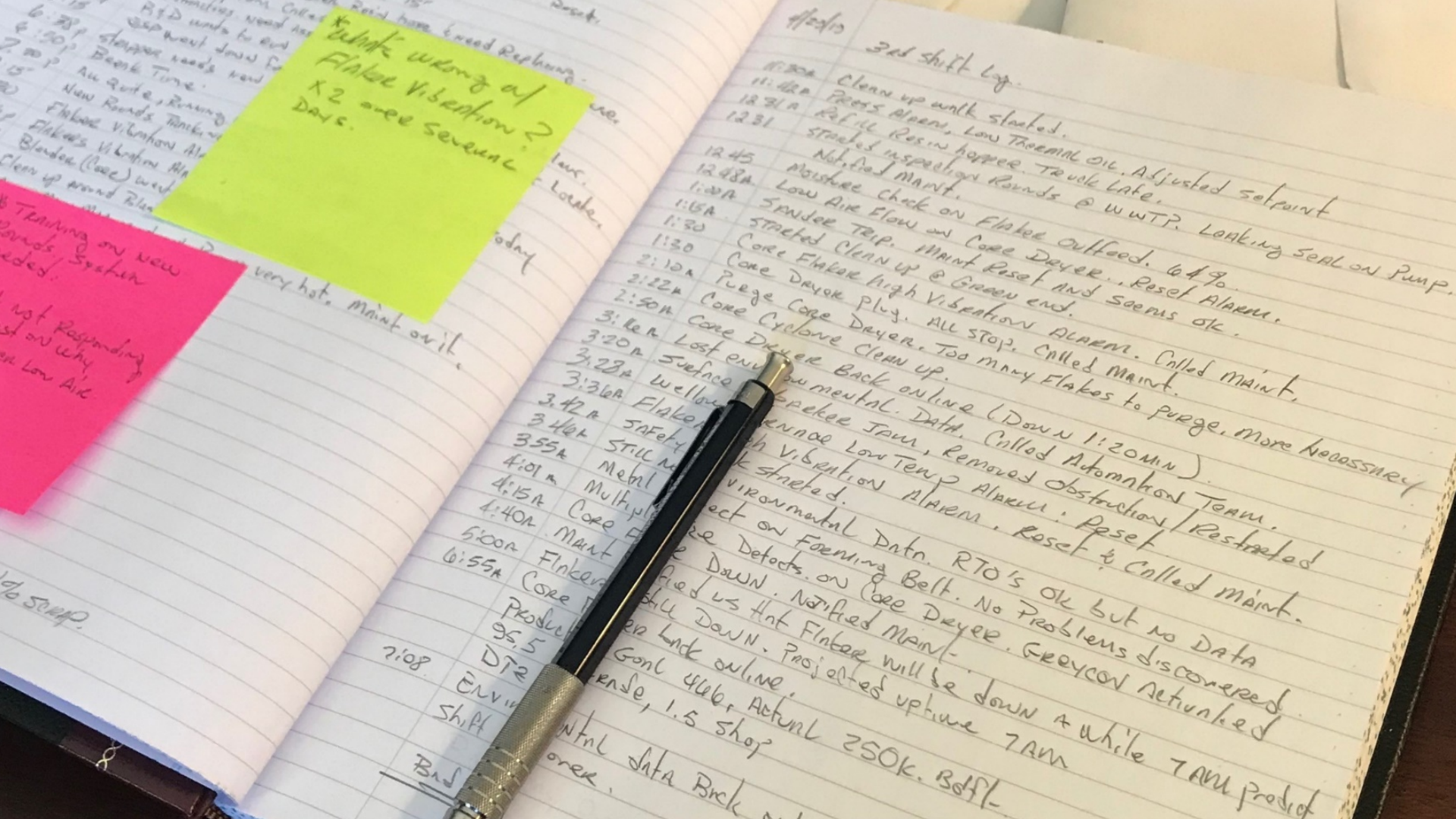


1. Digitize Operator Logs, Work List, Standing orders, Shift handover | Mobile
2. Create & Enforce rules, Provide Accountability, Facilitate instructions
3. Integrates with existing systems to eliminate duplicate entry.



Lets take a look





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Calls

R&D wants to run

QSP went down for

Stripper needs new

Break Time.

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New Rounds Tracking

Flaker Vibration Alarm

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5:00A Flaker [illegible] Down. Projected uptime 7AM

6:55A Core [illegible] back online.

Product [illegible] Goal 466, Actual 250K. Bdfl.

95.5 [illegible] 1.5 Shop

7:08 DT2 [illegible] Data Back [illegible]

Envi[illegible] over.

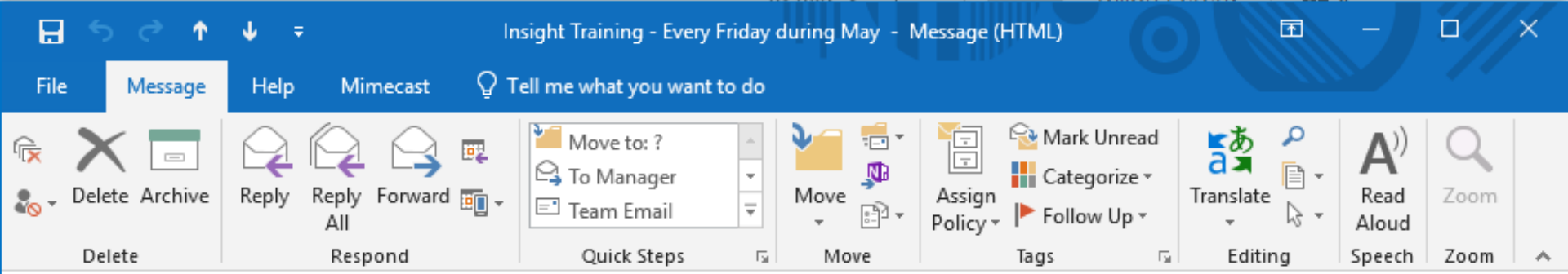
Shift

Bad

Lets take a look

WISH LIST

Better tracking of “memos”



Wed 4/24/2019 8:15 PM

DP

Dillon Perera

Insight Training - Every Friday during May

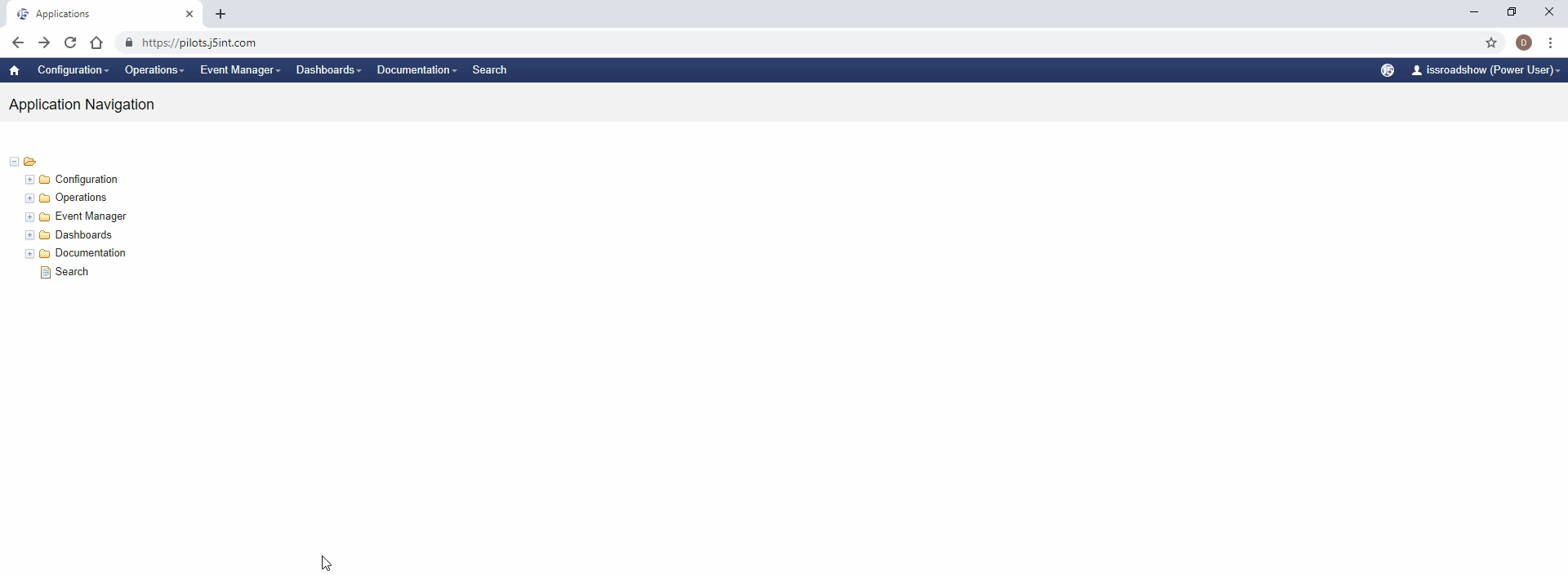
To

Team,
We will be holding training sessions each Friday during May on our new tool Aveva Insight.
You are required to signup for a session via the training department calendar.

Please reply back with an "Ok" so that I know you've read this email.

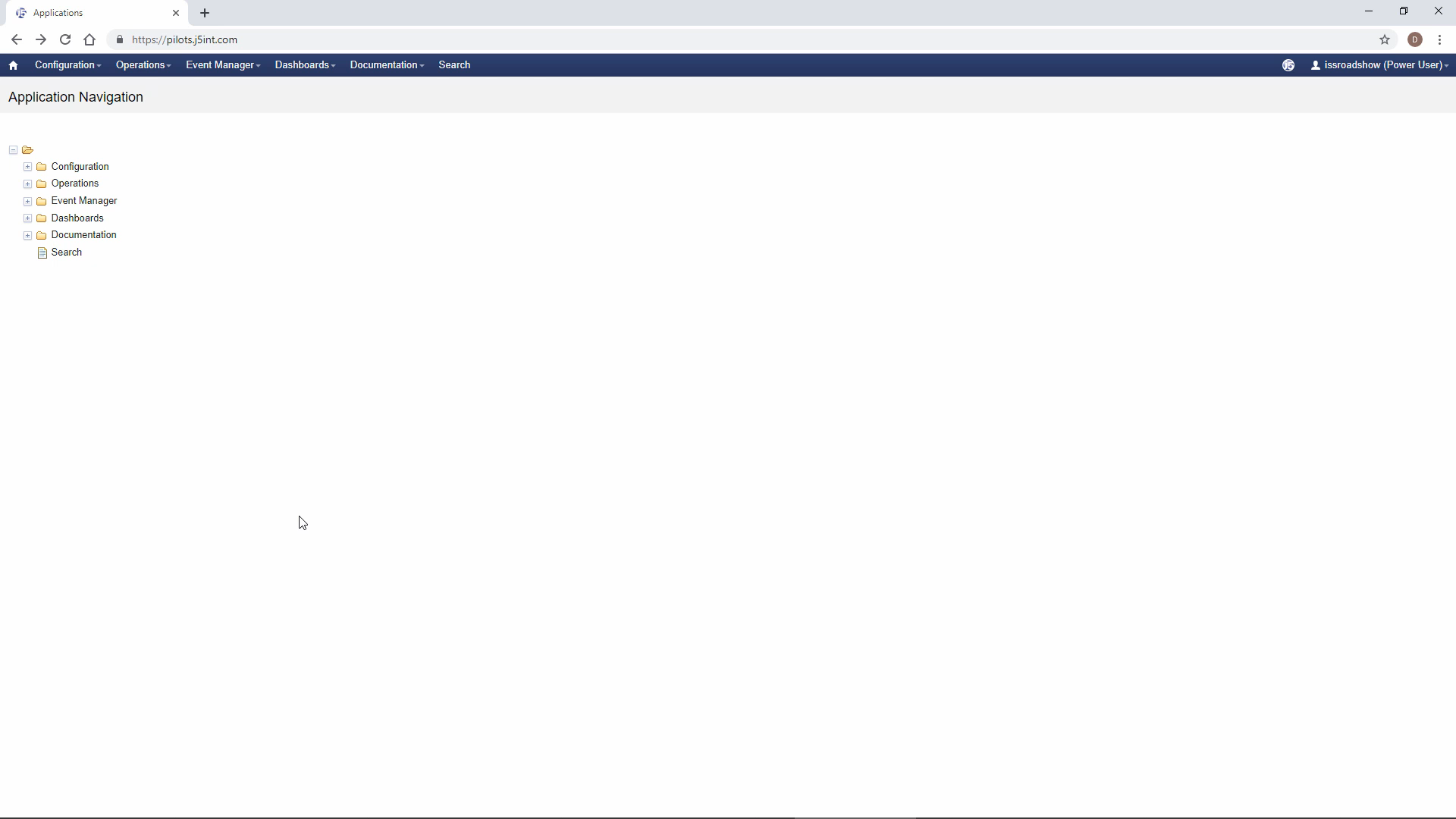
Dillon Perera | **InSource Solutions** | **System Consultant**
704.897.1451 (direct) | dperera@insourcess.com | www.insource.solutions

Driving Operational Results thru Digitization Roadshow: Register Now



Key Points:

- J5 contains a collection of related modules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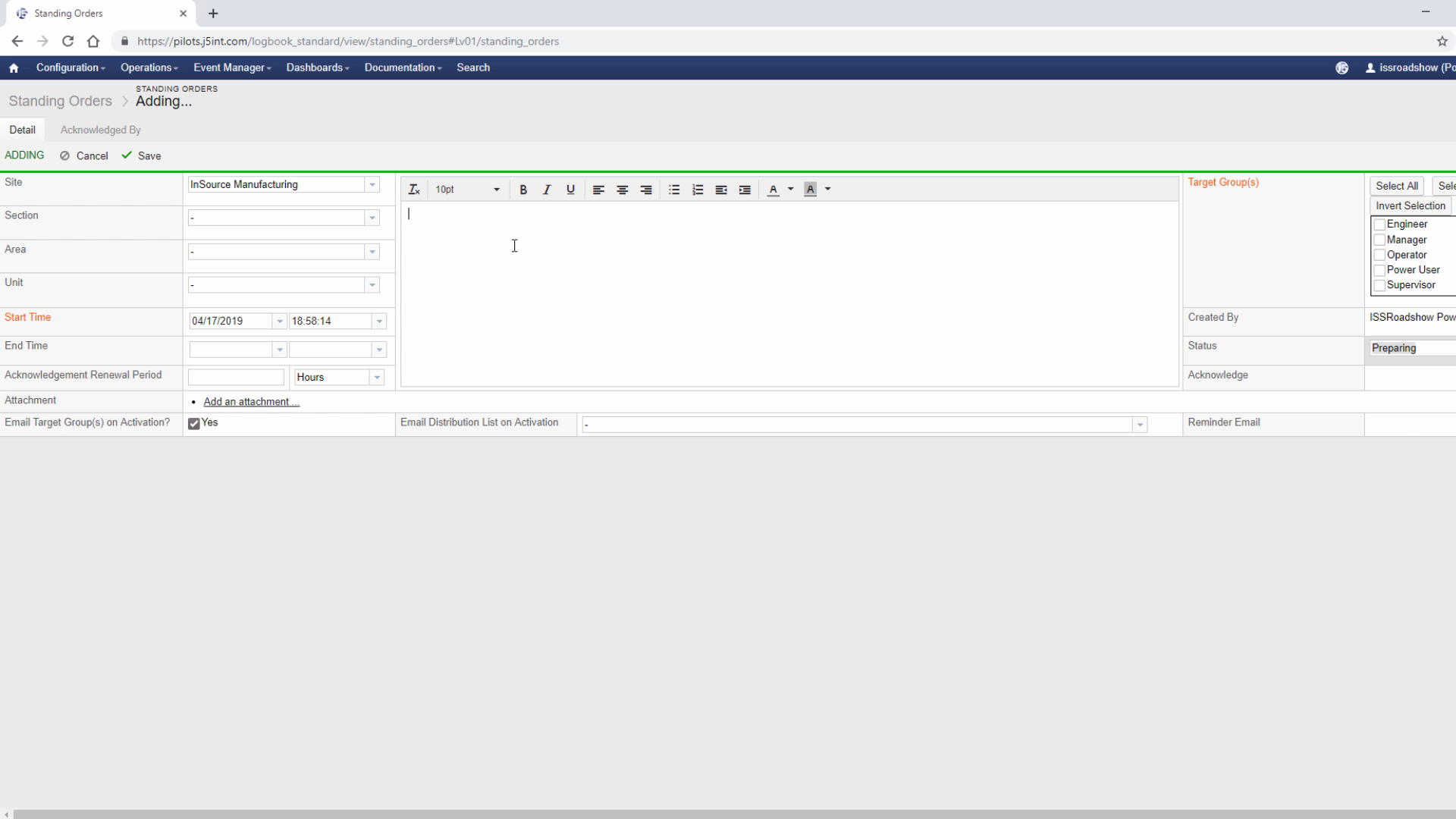
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04/17/2019
18:58:14
End Time
Acknowledgement Renewal Period
Hours
Attachment
Add an attachment ...
Email Target Group(s) on Activation?
Yes
10pt
Email Distribution List on Activation
-
Target Group(s)
Select All
Invert Selection
Engineer
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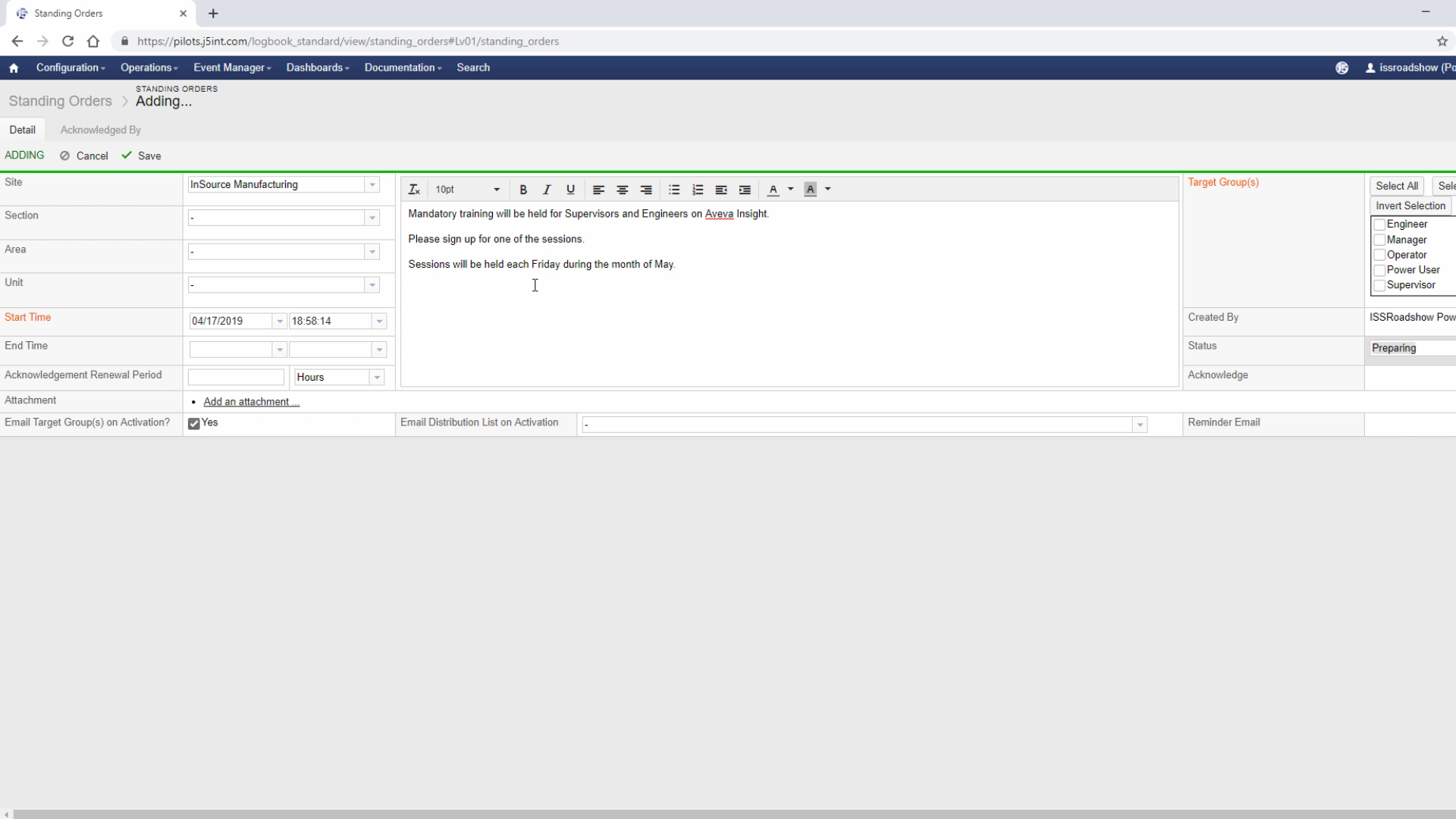
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Section
-
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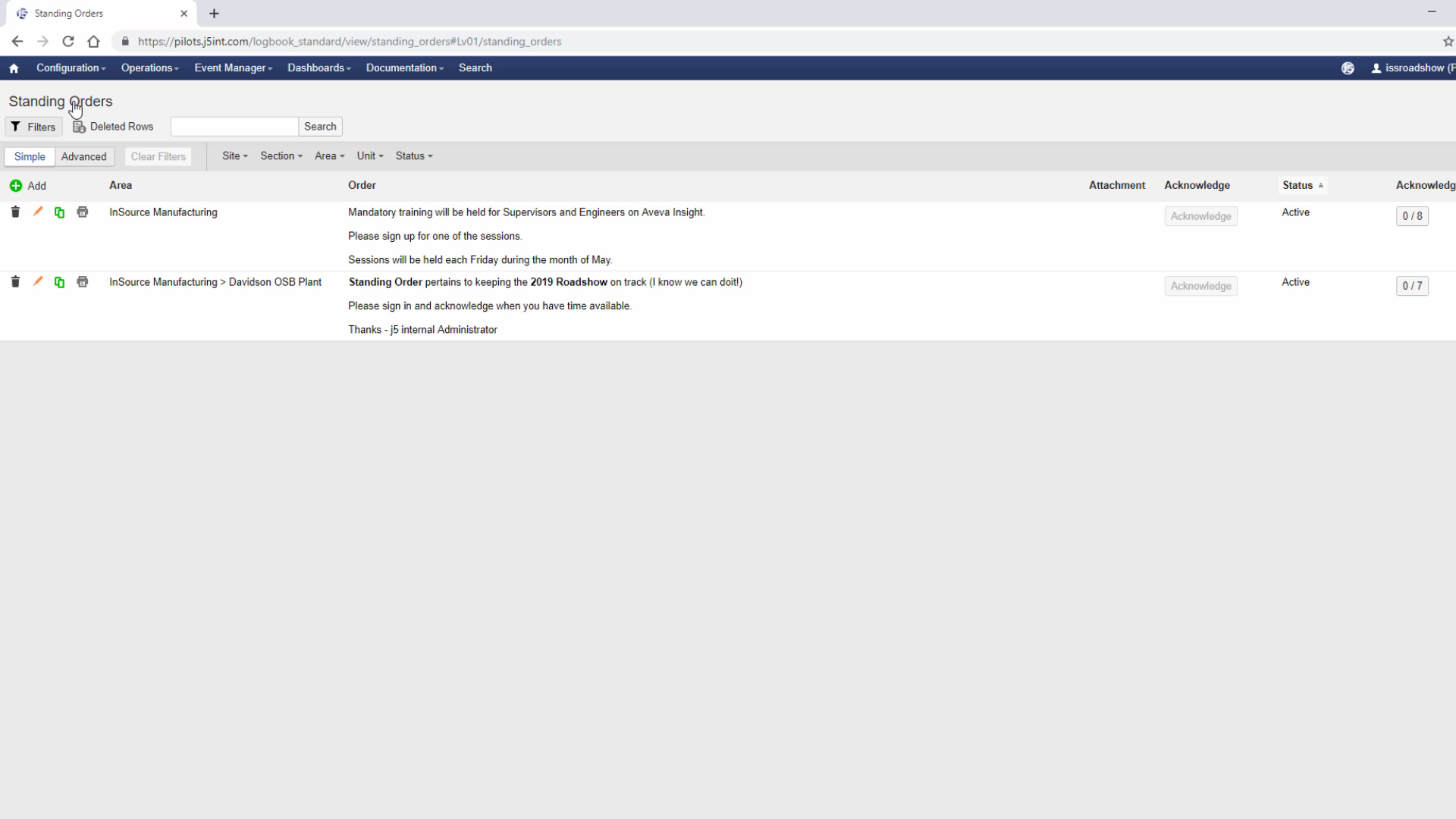
-
Unit
-
Start Time
04/17/2019
18:58:14
End Time
Acknowledgement Renewal Period
Hours
Attachment
Add an attachment ...
Email Target Group(s) on Activation?
Yes
10pt
Mandatory training will be held for Supervisors and Engineers on Aveva Insight.
Please sign up for one of the sessions.
Sessions will be held each Friday during the month of May.
Email Distribution List on Activation
-
Target Group(s)
Select All
Invert Selection
Engineer
Manager
Operator
Power User
Supervisor
Created By
ISSRoadshow Pow
Status
Preparing
Acknowledge
Reminder Email

issroadshow (Power User)

Target Group(s)	Select All / Select None / Invert Selection ☑ Engineer ☐ Manager ☐ Operator ☐ Power User ☑ Supervisor
Created By	ISSRoadshow Power User
Status	Preparing
Acknowledge	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Status
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InSource Manufacturing
Mandatory training will be held for Supervisors and Engineers on Aveva Insight.
Please sign up for one of the sessions.
Sessions will be held each Friday during the month of May.
Acknowledge
Active
0 / 8
InSource Manufacturing > Davidson OSB Plant
Standing Order pertains to keeping the 2019 Roadshow on track (I know we can doit!)
Please sign in and acknowledge when you have time available.
Thanks - j5 internal Administrator
Acknowledge
Active
0 / 7

Lets take a look

WISH LIST

Better tracking of “memos”

Scheduling of recurring tasks

3rd Shift Log.

11:30A	Clean up walk started.
11:42A	Press Alarm, Low Thermal Oil. Adjusted Setpoint
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12 45	Moisture Check on Flaker outfeed. 64%.
12 48A.	Low Air Flow on Core Dryer., Reset Alarm.
1:00A	Sander Trip. Maint Reset and seems ok.
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4:01A	Multiple Fire Detects. on Core Dryer. Greycon Activated
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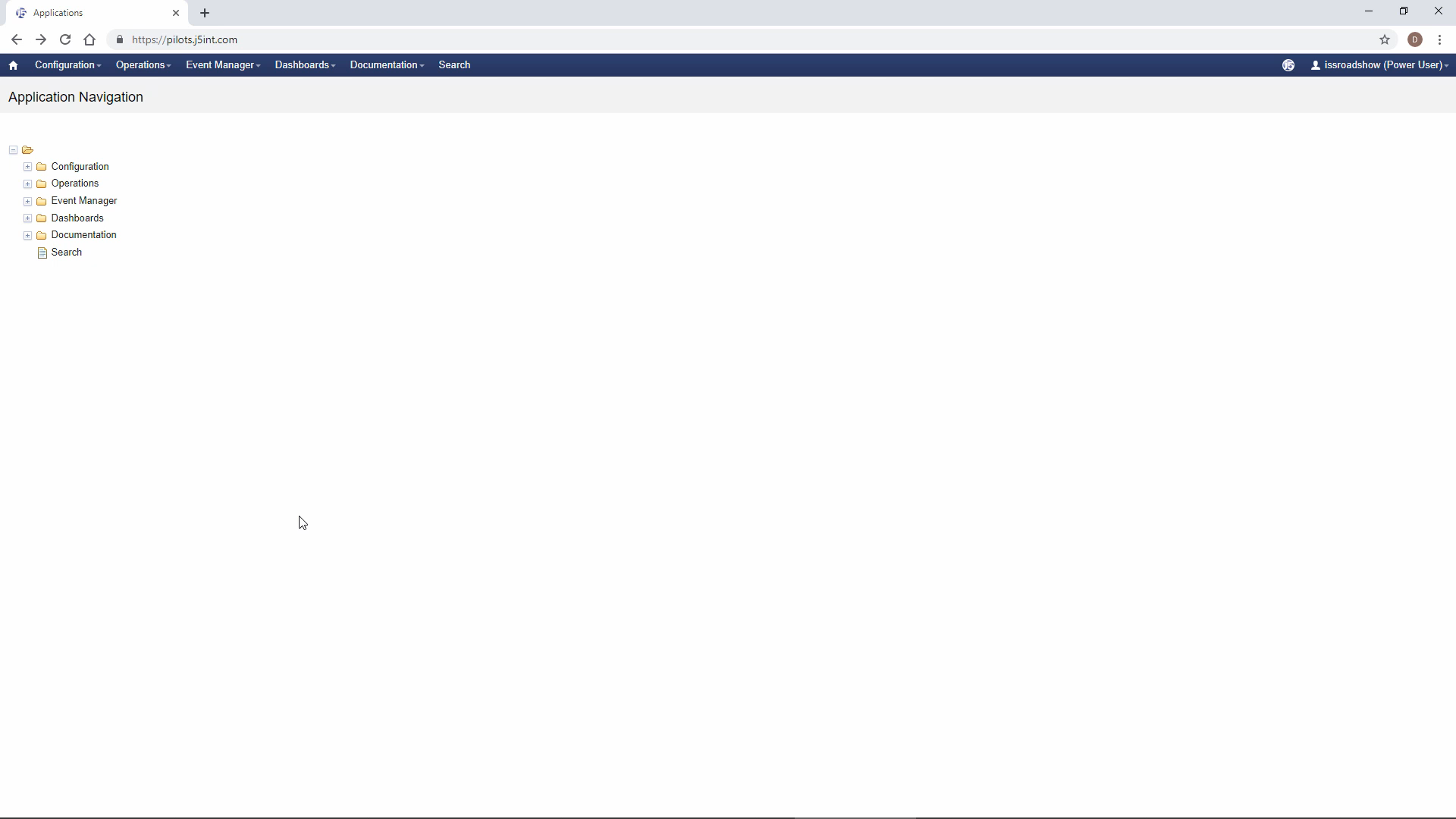
4:40A	Maint Notified us that Flaker will be down a while 7AM predict.
5:00A	Flakers still Down. Projected uptime 7AM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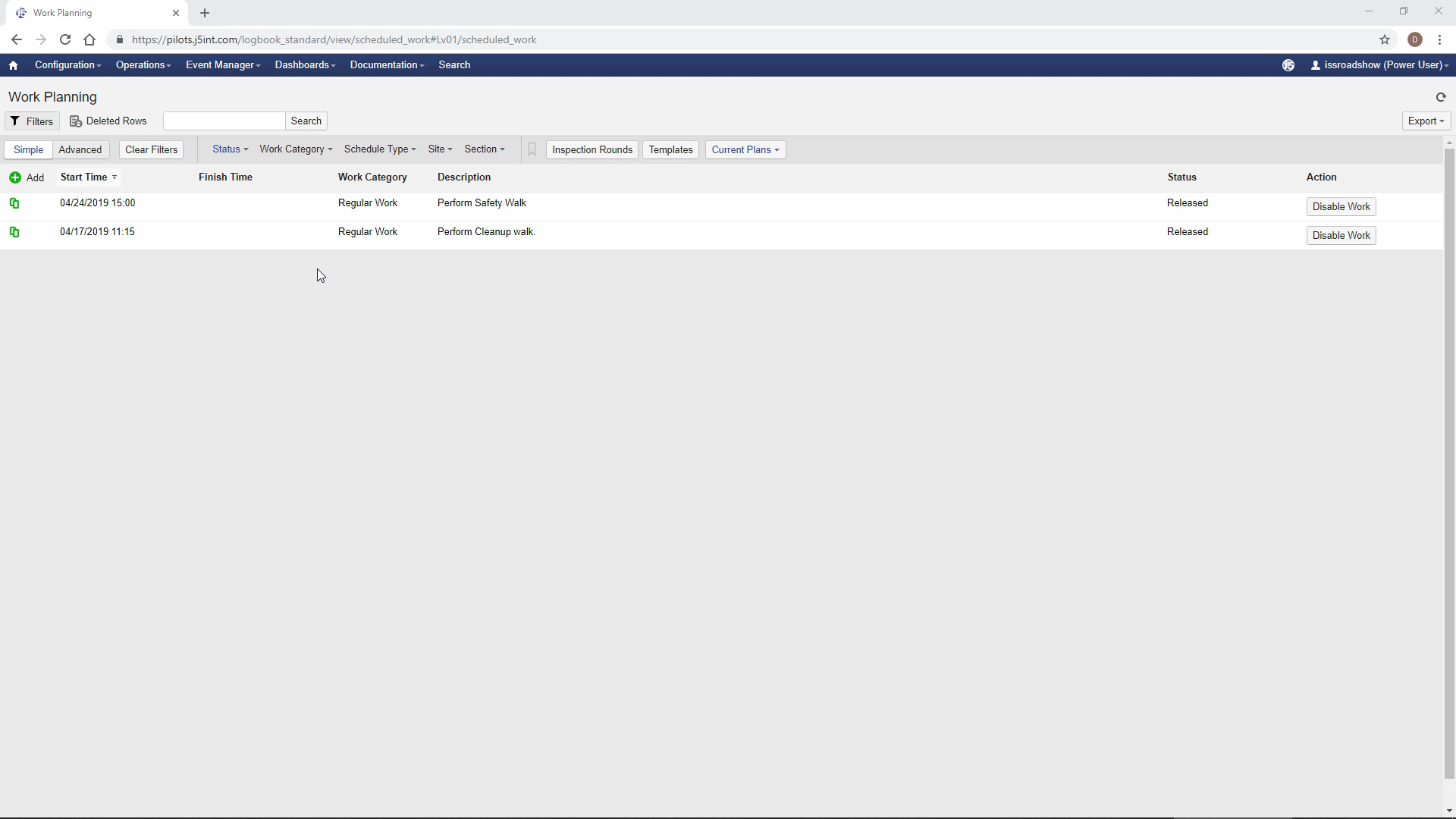
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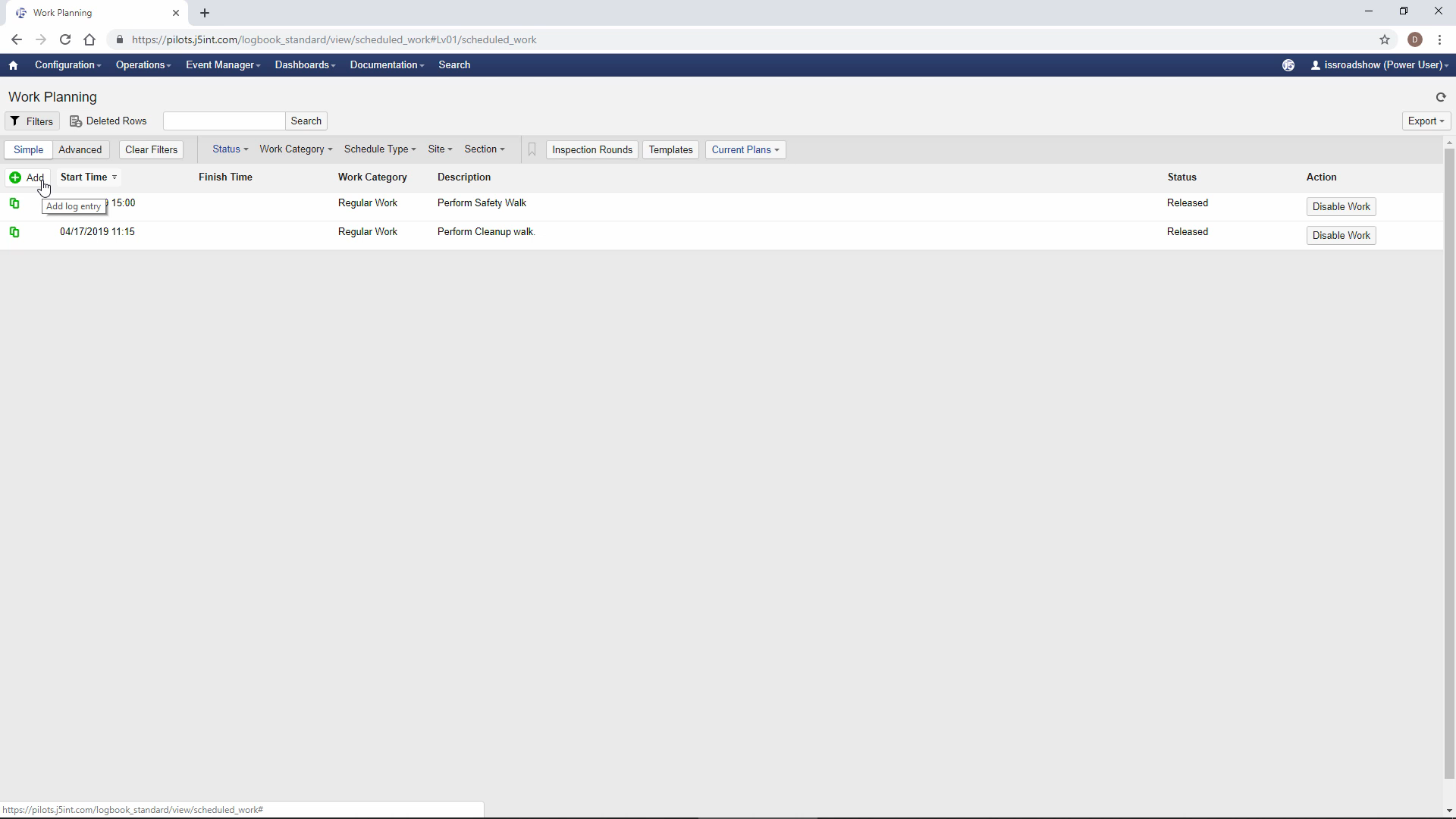
Section
Inspection Rounds
Templates
Current Plans
Add
Start Time
Finish Time
Work Category
Description
Status
Action
04/24/2019 15:00
Regular Work
Perform Safety Walk
Released
Disable Work
04/17/2019 11:15
Regular Work
Perform Cleanup walk.
Released
Disable Work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Templates
Current Plans
Add
Add log entry
Start Time
Finish Time
Work Category
Description
Status
Action
15:00
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04/17/2019 11:15
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https://pilots.j5int.com/logbook_standard/view/scheduled_work#

Work Planning

https://pilots.j5int.com/logbook_standard/view/scheduled_work#Lv01/scheduled_work

Configuration | Operations | Event Manager | Dashboards | Documentation | Search

WORK PLANNING

Work Planning > Adding...

Detail

ADDING | Cancel | Save

Work Description

Plan/Template	Plan
Site	InSource Manufacturing
Section	-
Area	-
Unit	-
Work Category	Regular Work
Assigned Group	Supervisor
IndustraForm	

10pt

Perform Security Walk

Form Version

Schedule Description

Schedule Type Once-off

Delete Edit Copy

Work Description			
Plan/Template	Plan	Perform Security Walk	
Site	InSource Manufacturing		
Section			
Area			
Unit			
Work Category	Regular Work		
Assigned Group	Supervisor		
IndustraForm	-	Form Version	
Schedule Description			
Schedule Type	Simple		
Start Time	04/24/2019 06:00		
Finish Time			
Timezone	America/New_York		
Repeat Every	8	Hours	
Duration(h)	1		

Tasks

Add

Task #	Description	Attachment

WORK PLANNING

Work Planning > Perform Safety Walk

Detail | Work List

Loading...

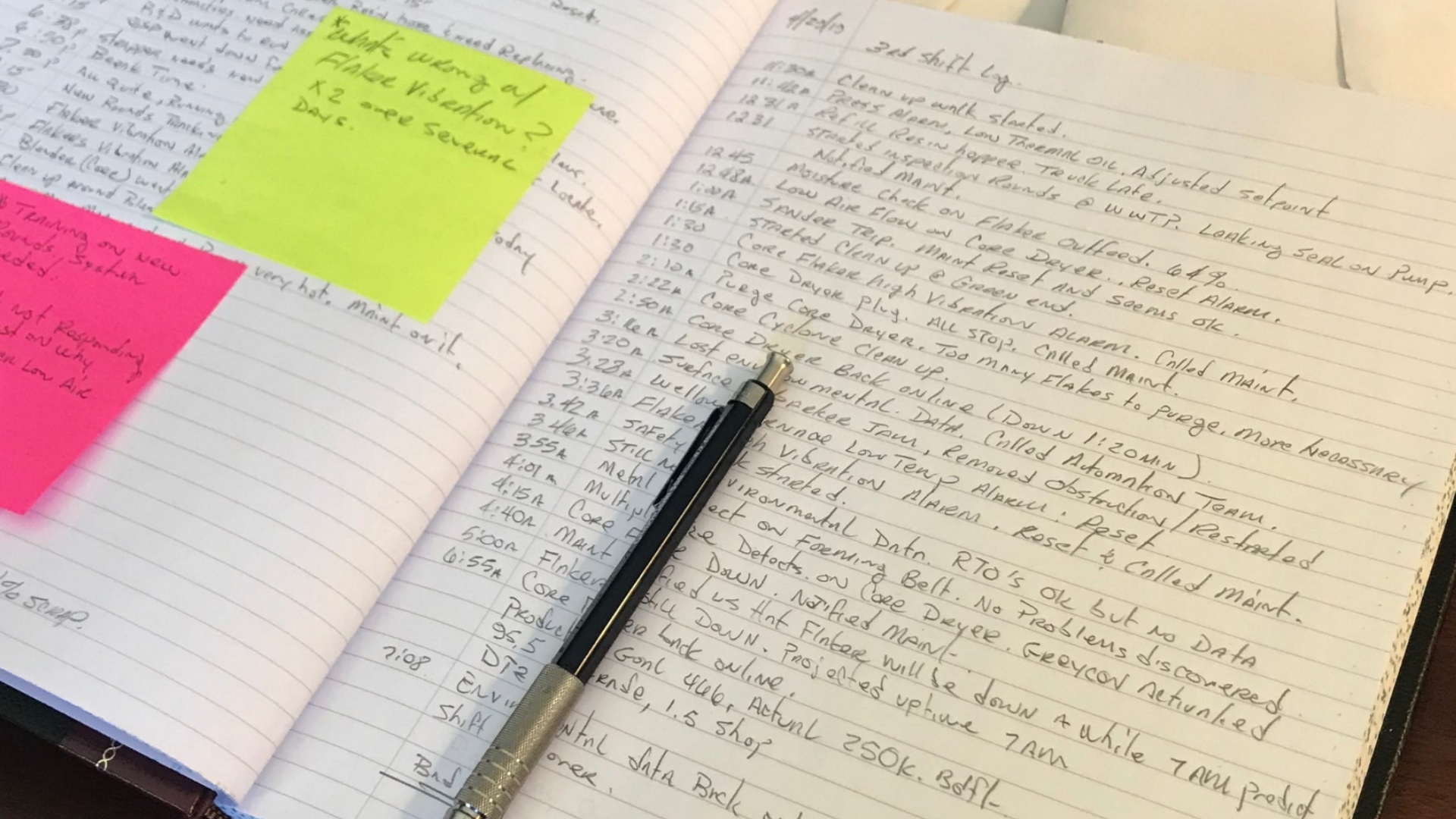
Lets take a look

WISH LIST

Better tracking of “memos” ✓

Scheduling of recurring tasks ✓

Digitized operator log entries



Reset.

Reset hose & need Replacing.

Calls

R&D wants to run

QSP went down for

Stripper needs new

Break Time.

All Quite, Running

New Rounds Tracking

Flaker Vibration Alarm

Flakers Vibration Alarm

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Clean up around Blender

Locate.

Today

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Training on new Rounds System needed.

not Responding

on why

Low Air

% scrap.

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4:40A Maint [illegible] us that Flaker will be down a while 7AM Predict

5:00A Flaker [illegible] Down. Projected uptime 7AM

6:55A Core [illegible] back online.

Product [illegible] Goal 466, Actual 250K. Bdft.

95.5 [illegible] 1.5 Shop

7:08 DT2 [illegible] Data Back [illegible]

Envi[illegible] over.

Shift

Bad

4/23/13

3rd shift Log.

11:30A Clean up walk started.

~~11:42A Press Alarm, Low Thermal Oil. Adjusted setpoint~~

12 31 A Refill Resin hopper. Truck Late.

~~12 31 Started Inspection Rounds @ WWTP.~~ Leaking Seal on Pump. Notified Maint.

12 45 Moisture Check on Flaker outfeed. 6.4%.

12 48A. Low Air Flow on Co[illegible]

1:00A Sander Trip. Maint [illegible]

1:15A. Started Clean up @ G[illegible]

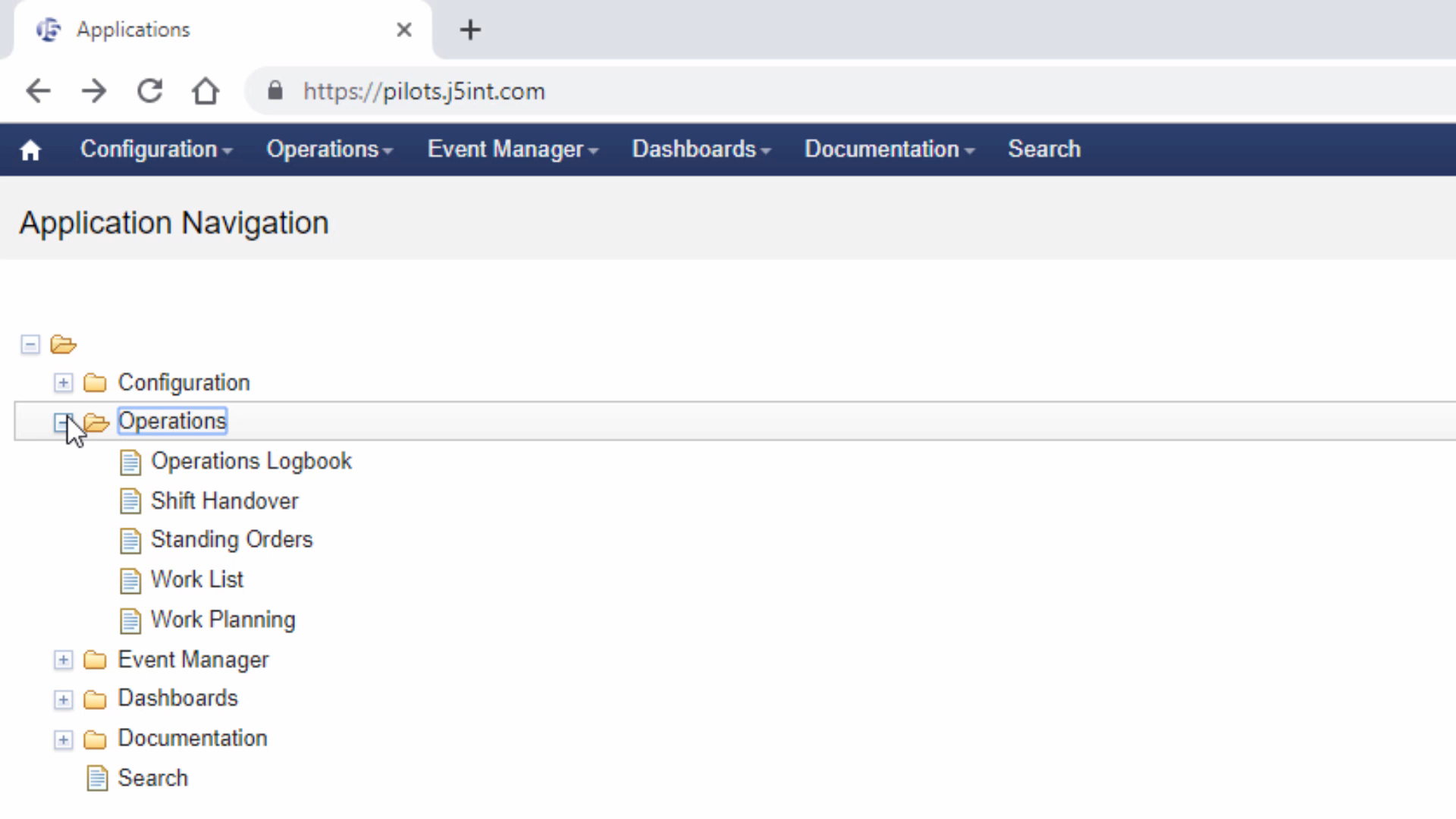
1:30 Core Flaker High Vib[illegible] Alarm. Called Maint.

1:30 Core Dryer plug. Al[illegible]

2:10A Purge Core Dryer. Too many Flakes to purge. More Necessary

Problems with this log entry:

1) Which resin tank?
2) When did it occur?
3) Who wrote this?


Applications
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Operations Logbook

https://pilots.j5int.com/logbook_standard/view/general_logbook#Lv01/general_logbook

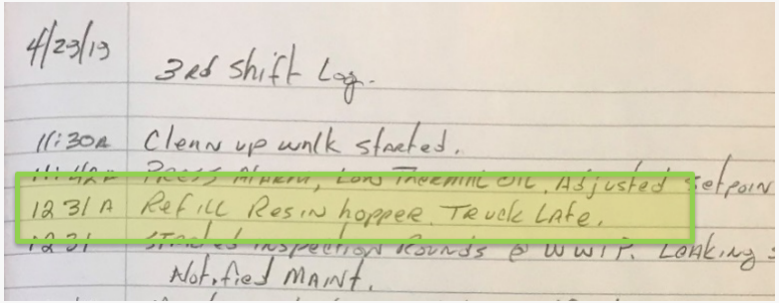
Configuration | Operations | Event Manager | Dashboards | Documentation | Search | issroadshow (Power User)

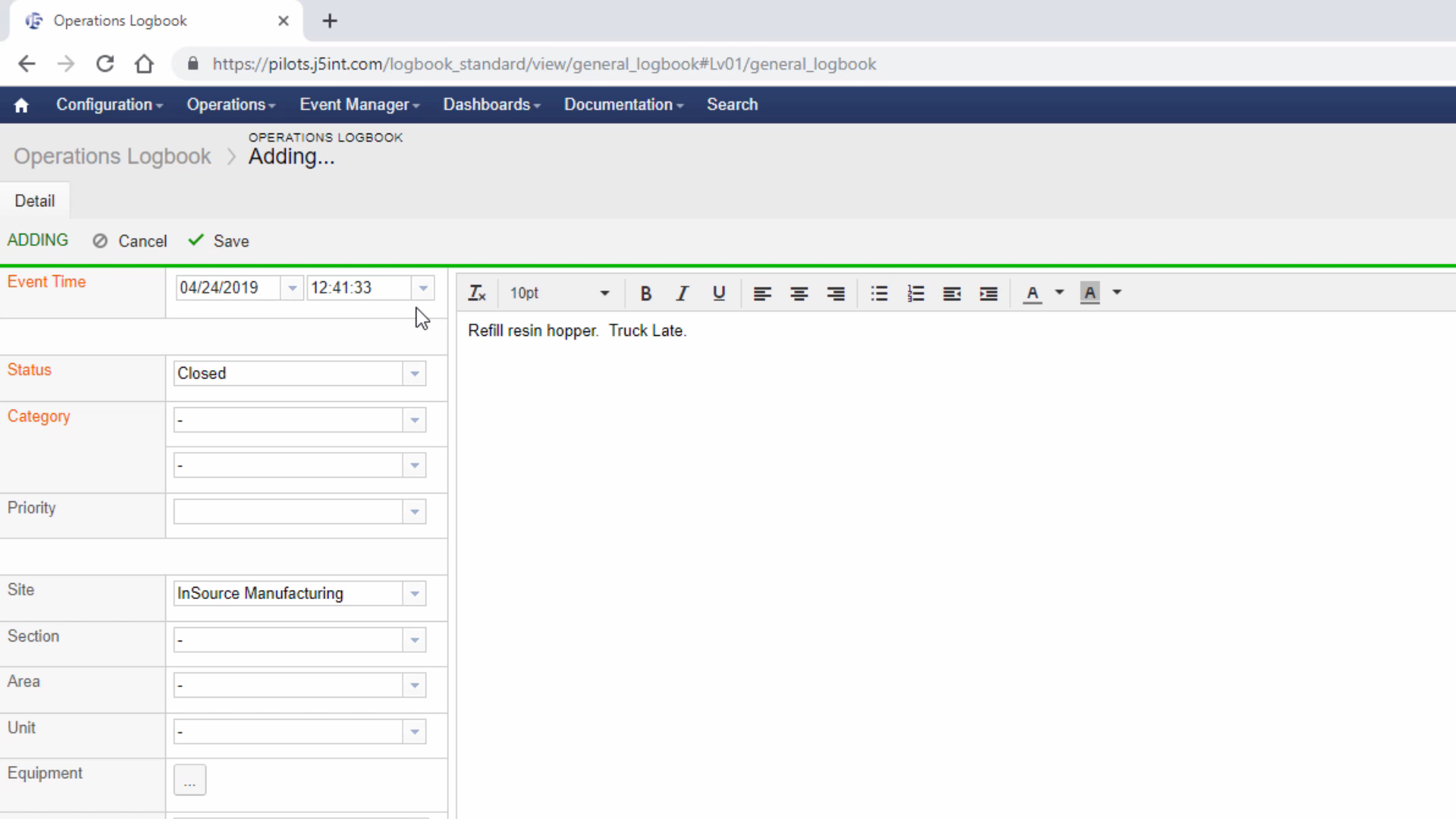
Operations Logbook

Filters | List | Timeline | Calendar | Deleted Rows | Search | Export

Simple | Advanced | Clear Filters | Event Time | Category | Status | Priority | Site | Section | Saved Filters

Add | Event Time | Area | Category | Message | Status | Notes




Operations Logbook
https://pilots.j5int.com/logbook_standard/view/general_logbook#Lv01/general_logbook
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OPERATIONS LOGBOOK
Operations Logbook
Adding...
Detail
ADDING
Cancel
Save
Event Time
04/24/2019
12:41:33
Status
Closed
Category
-
-
Priority
Site
InSource Manufacturing
Section
-
Area
-
Unit
-
Equipment
...
10pt
Refill resin hopper. Truck Late.

Detail

ADDING Cancel Save

Event Time	04/24/2019 12:41:33
Status	Closed
Category	-
	-
Priority	
Site	InSource Manufacturing
Section	Davidson OSB Plant
Area	Blending
Unit	-
Equipment	Resin Tank for the Core Blender ...
IndustraForm	
Add to Handover Report	Yes
Attachment	• Add an attachment ...

10pt

Refill resin hopper. Truck Late.

Predefined Messages

Operations Logbook > Adding...

Detail

ADDING Cancel Save

Event Time	04/24/2019 12:41:33
Status	Closed
Category	Operations
	-
Priority	
Site	InSource Manufacturing
Section	Davidson OSB Plant
Area	Blending
Unit	-
Equipment	Resin Tank for the Core Blender ...
IndustraForm	
Add to Handover Report	Yes
Attachment	Add an attachment ...

10pt

Refill resin hopper. Truck Late.

Predefined Messages

Operations Logbook

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Configuration | Operations | Event Manager | Dashboards | Documentation | Search | issroadshow (Power User)

Operations Logbook

Filters | List | Timeline | Calendar | Deleted Rows | Search | Export

Simple | Advanced | Clear Filters | Event Time | Category | Status | Priority | Site | Section | Saved Filters

Add	Event Time	Area	Category	Message	Status	Notes
	04/24/2019 12:41	InSource Manufacturing > Davidson OSB Plant > Blending	Operations	Refill resin hopper. Truck Late.	Closed	

Lets take a look

WISH LIST

- Better tracking of “memos” ✓
- Scheduling of recurring tasks ✓
- Digitized operator log entries ✓
- Automatic data entry for logs

4/23/19

3rd shift Log.

11:30A Clean up work started.

11:42A Press Alarm. Low Thermal Oil Adjusted setpoint

12 31 A Refill Resin hopper. Truck Late.

12 31 Started inspection Rounds @ WWTP. Leaking Seal on Pump. Notified Maint.

12 45 Moisture check on Flaker outfeed. 4.1%.

12 48A. Low Air Flow on Core Dryer. Reset Alarm.

1:00A Sander Trip. Maint Reset and seems ok.

1:15A Started Clean up @ Green end.

1:30 Core Flaker high Vibration Alarm. Called Maint

1:30 Core Dryer plug. All Stop. Called Maint.

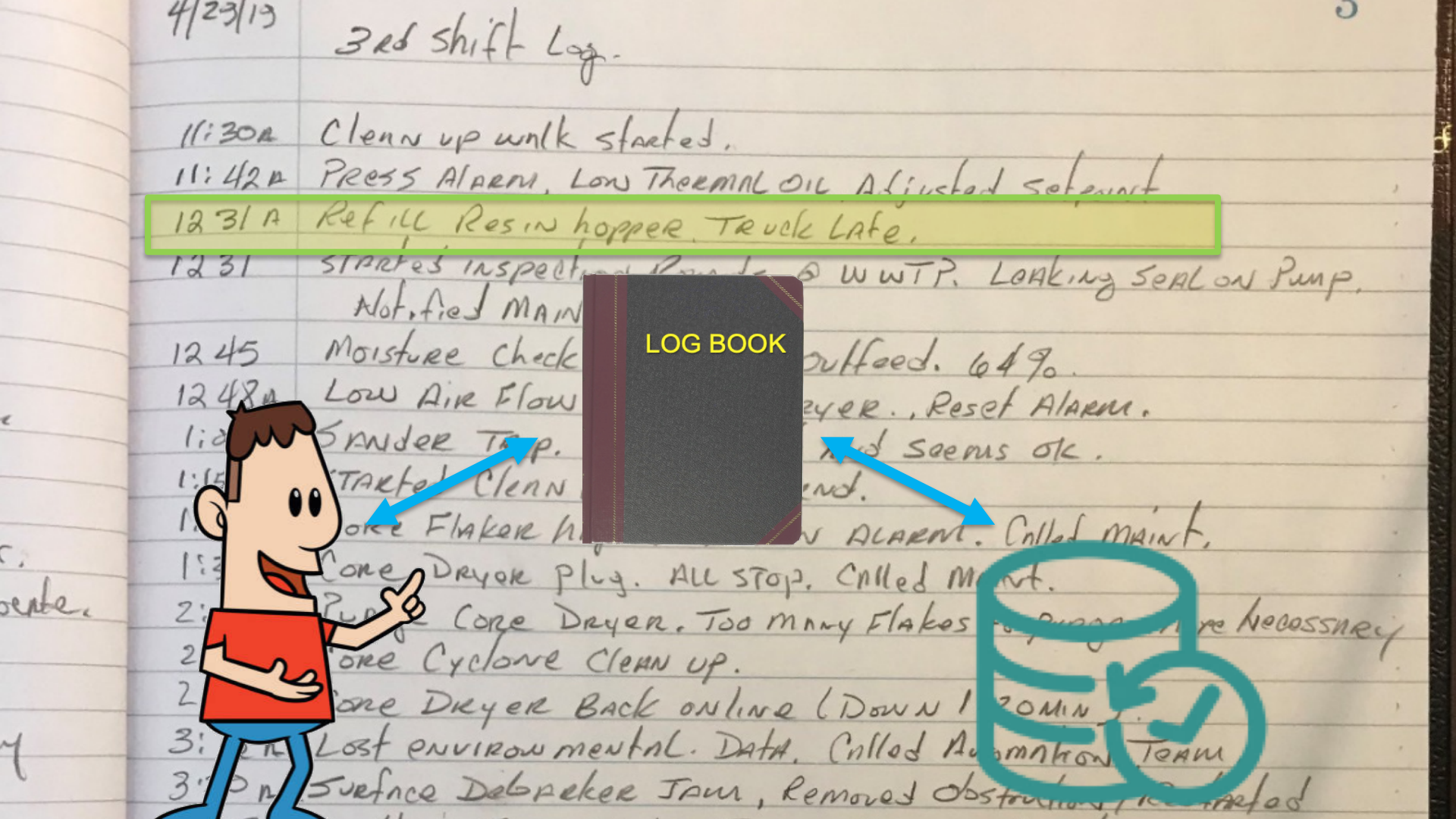
2:10A Purge Core Dryer. Too many Flakes to purge. More Necessary

2:22A Core Cyclone Clean up.

2:50A Core Dryer Back online (Down 1:20Min).

3:16A Lost environmental. Data. Called Automation Team.

3:20A Surface Debreker Jam, Removed Obstruction/Restarted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3rd Shift Log.
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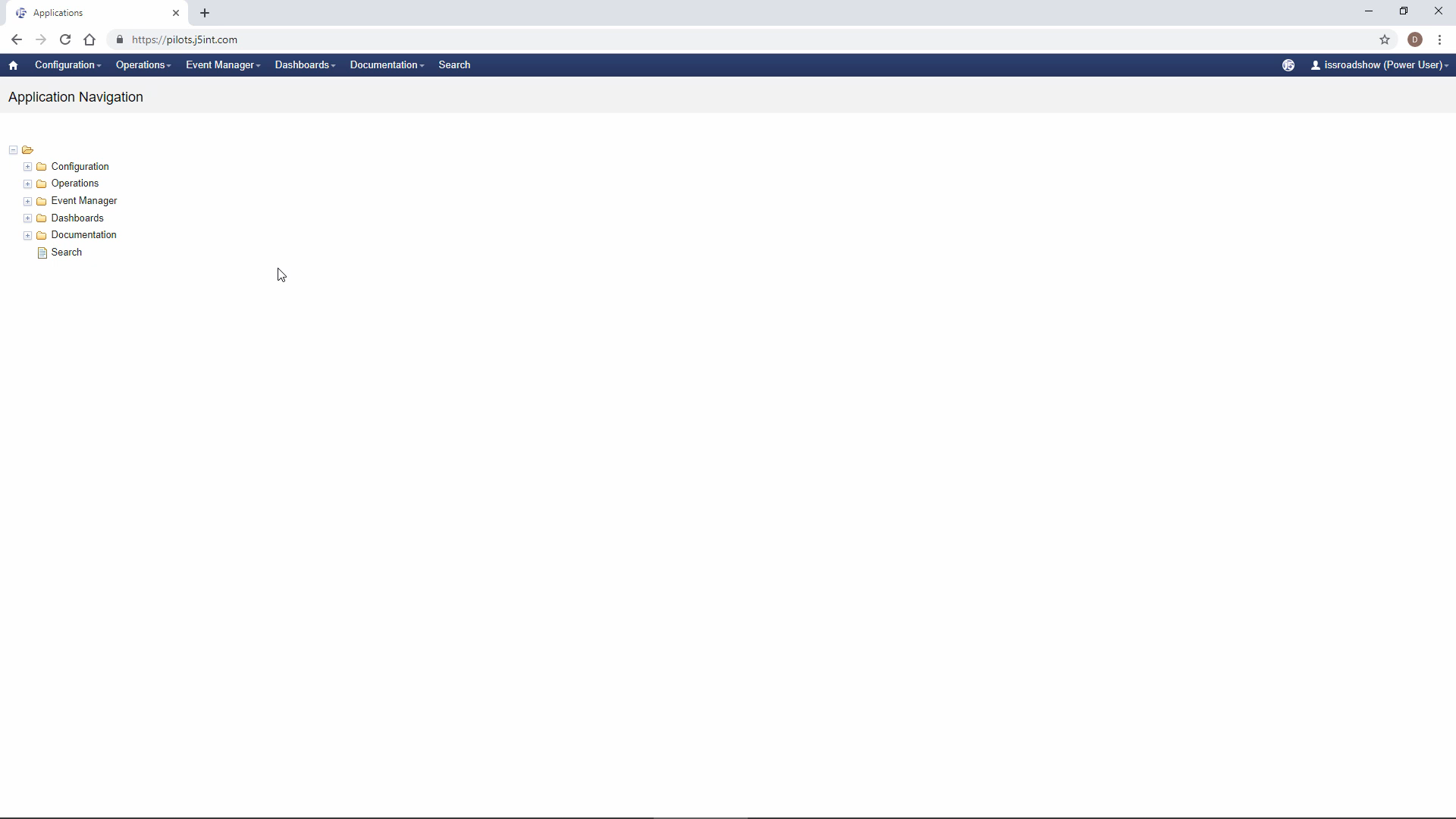
11:42A Press Alarm, Low Thermal Oil Adjusted setpoint
12 31 A Refill Resin hopper. Truck Late.
12 31 Started inspection Rounds @ WWTP. Leaking Seal on Pump.
Notified Main
12 45 Moisture Check
outfeed. 64%.
12 48A Low Air Flow
Reset Alarm.
Sander Trip.
seems ok.
Started Clean
Flaker
Alarm. Called maint.
Core Dryer plug. All stop. Called Maint.
Core Dryer. Too many Flakes
Necessary
Core Cyclone Clean up.
Core Dryer Back online (Down 1 20min)
Lost environmental. Data. Called Automation Team
Surface Debarker Jam, Removed Obstruction
LOG BOOK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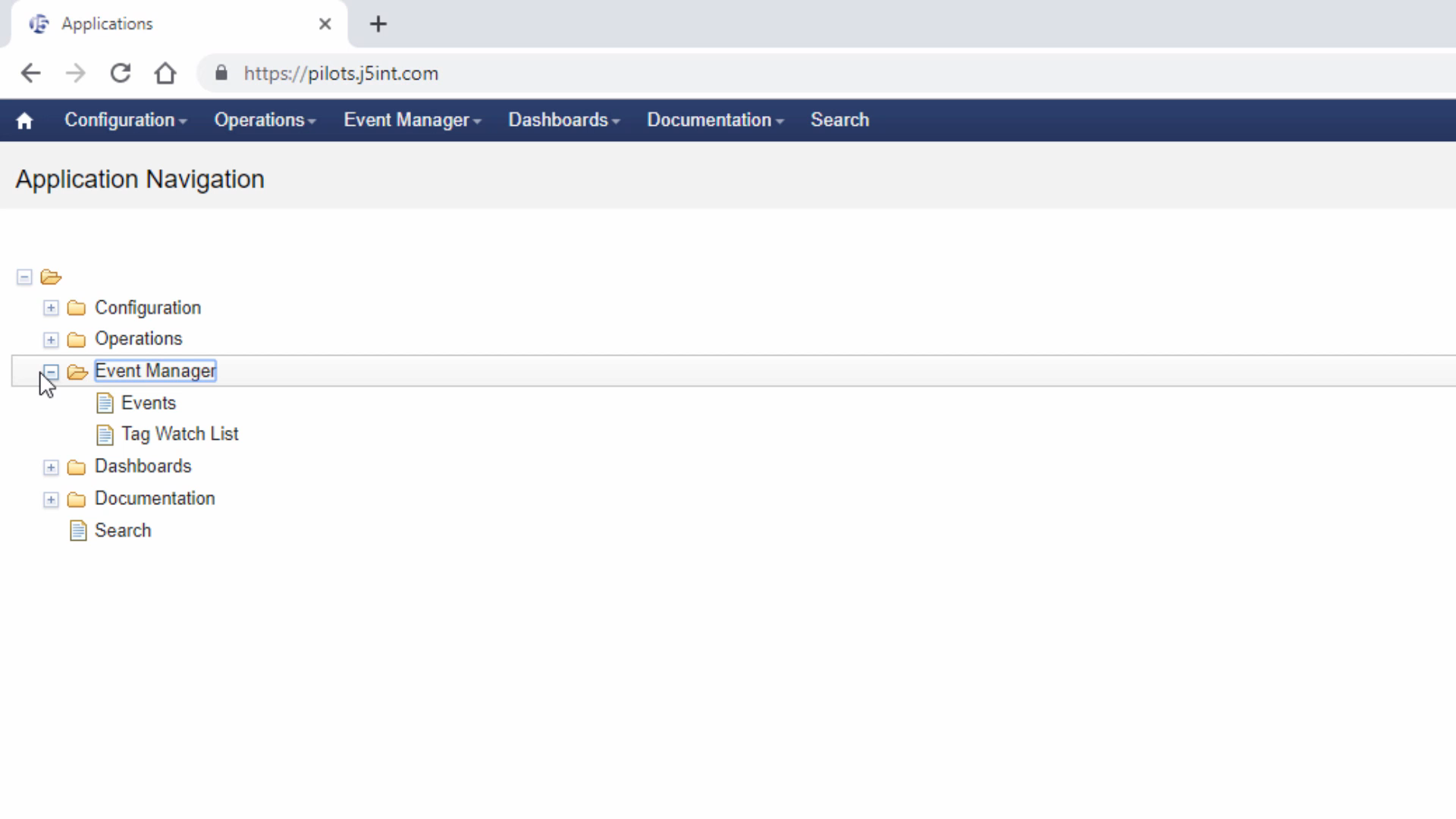
Applications
https://pilots.j5int.com
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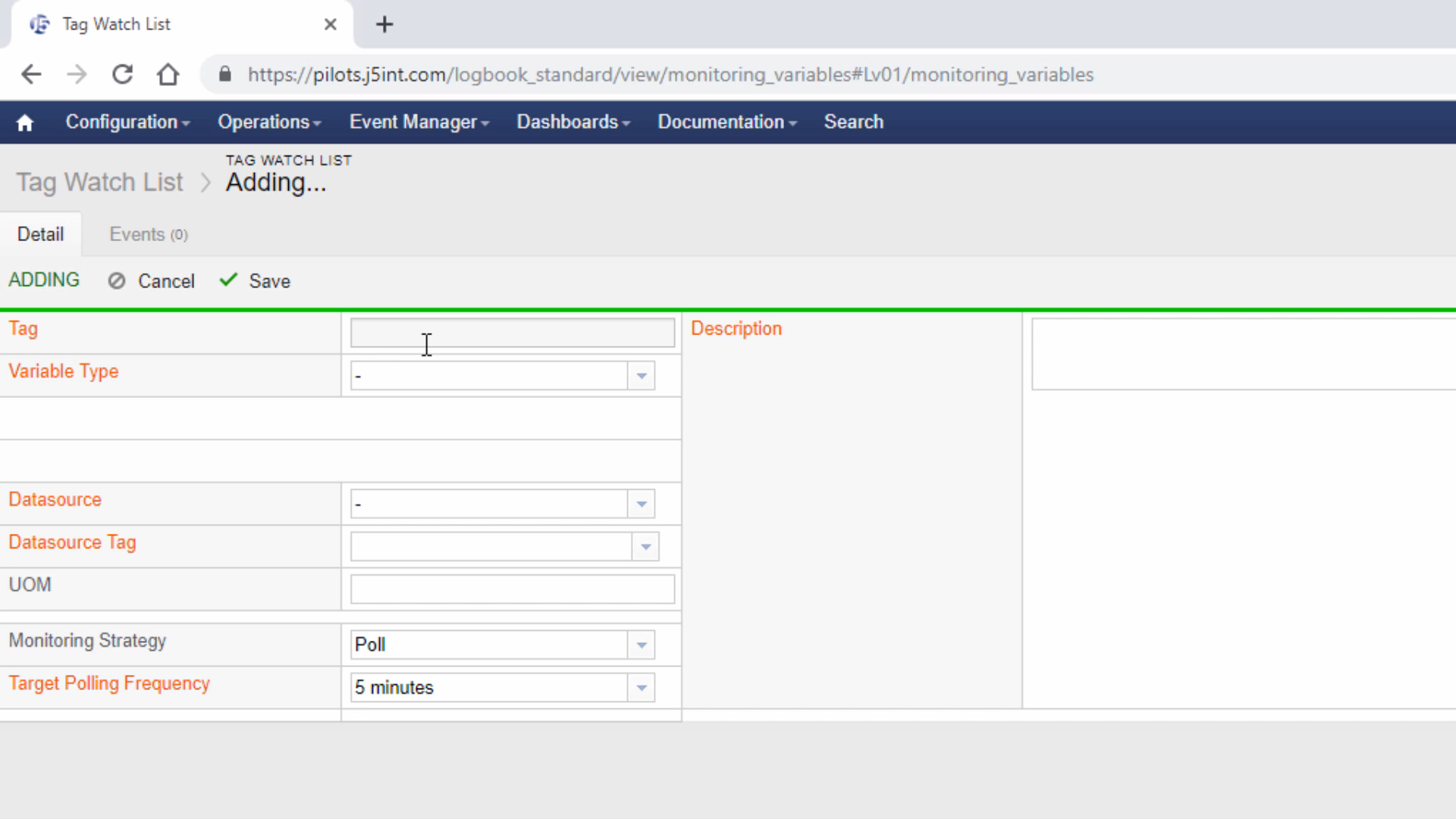
Tag Watch List
https://pilots.j5int.com/logbook_standard/view/monitoring_variables#Lv01/monitoring_variables
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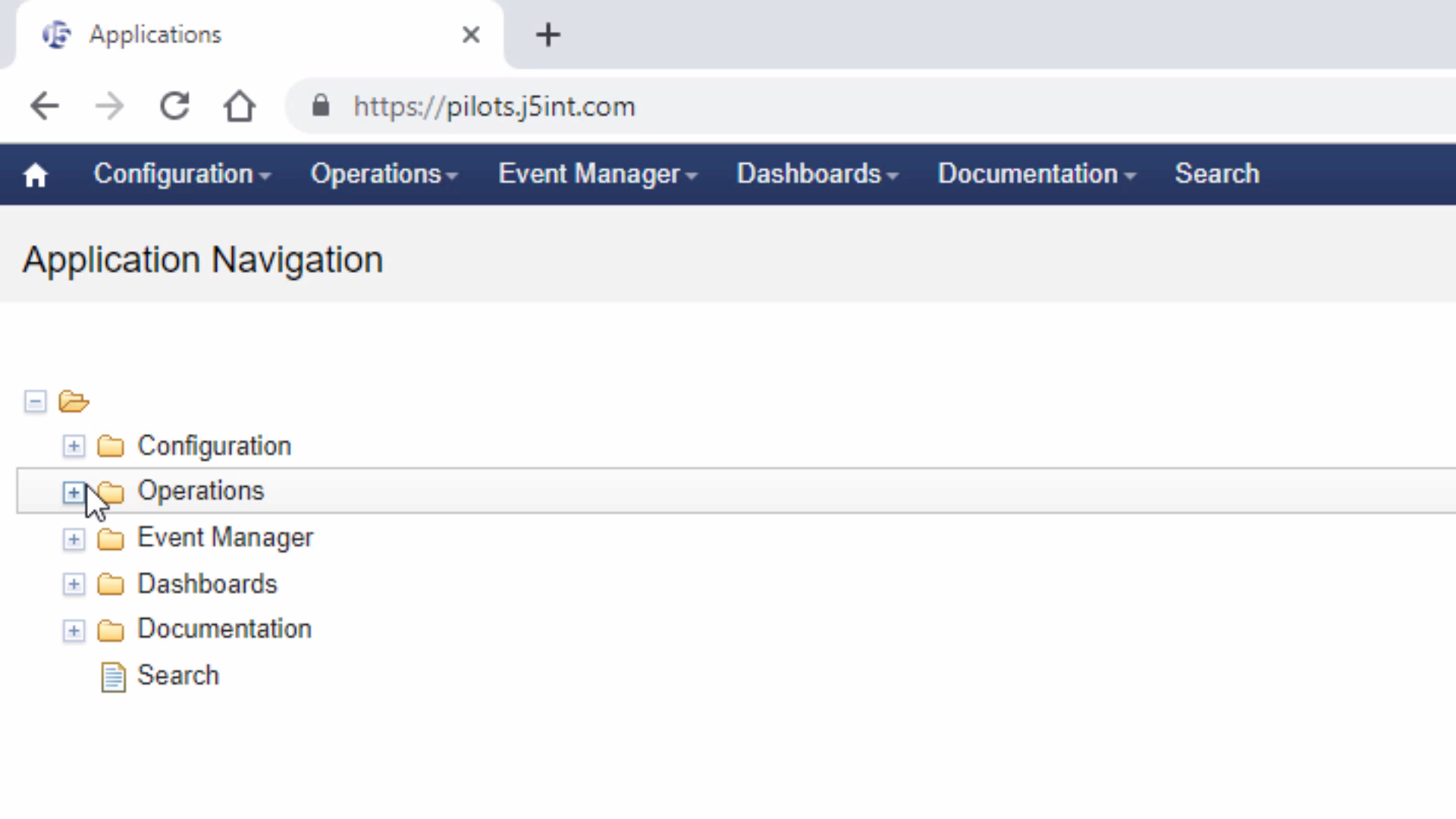
TAG WATCH LIST
Tag Watch List
Adding...
Detail
Events (0)
ADDING
Cancel
Save
Tag
Variable Type
-
Datasource
-
Datasource Tag
UOM
Monitoring Strategy
Poll
Target Polling Frequency
5 minutes
Description

issroadshow (Power User)

he Core Resin Tank.

Site	InSource Manufacturing
Section	-
Area	-
Unit	-
Monitoring Enabled?	Disabled
Target Form	
Aggregate Period (minutes)	60

Corrective Actions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Operations Logbook

https://pilots.j5int.com/logbook_standard/view/general_logbook#Lv01/general_logbook

Configuration | Operations | Event Manager | Dashboards | Documentation | Search | issroadshow (Power User)

Operations Logbook

Filters | List | Timeline | Calendar | Deleted Rows | Search | Export

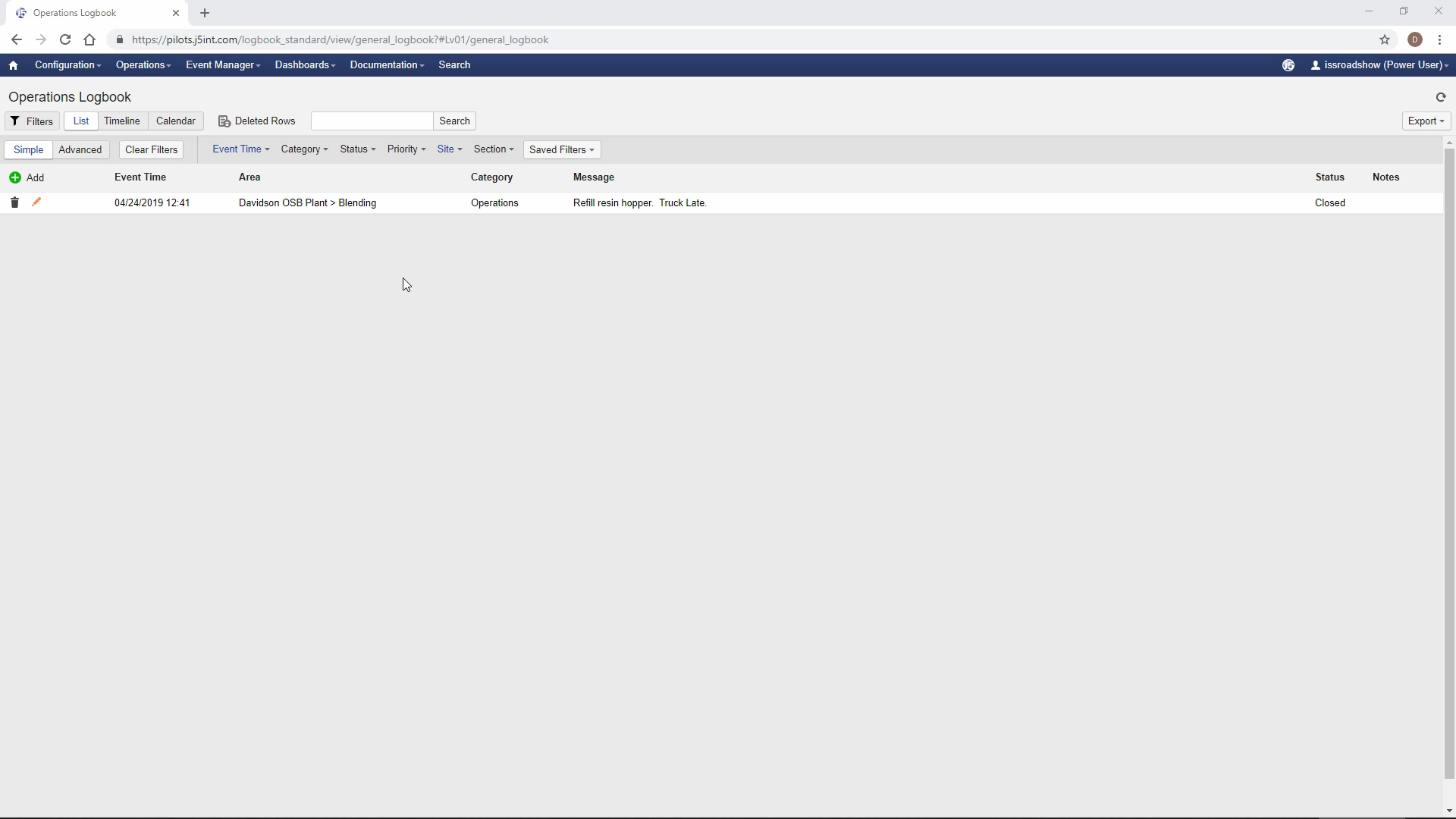
Simple | Advanced | Clear Filters | Event Time | Category | Status | Priority | Site | Section | Saved Filters

Add	Event Time	Area	Category	Message	Status	Notes
	04/24/2019 15:13		Production	Aggregate Event Information for tag: Core Resin Tank Level The following states were visited during the aggregate period: Standard Low, Target Low, Standard Low, Critical Low To view the Tag Watch List entry for these events, click here.	Open	
	04/09/2019 12:31	Davidson OSB Plant	Production	Refill resin hopper. Truck late.	Closed	
	04/09/2019 12:31	Davidson OSB Plant	Production	Refill resin hopper. Truck Late.	Closed	
	04/08/2019 20:15		Production	Line up around blender. Someone told the new hires that it makes smoothies.	Closed	
	04/08/2019 20:00		Production	Former (core) went down for maintenance.	Closed	
	04/08/2019 19:00		Production	All quiet, running normally.	Closed	
	04/08/2019 17:07		Production	Primary cyclone High delta pressure, 15"	Closed	
	04/08/2019 16:00		Production	Press Hydraulics low pressure. 1800 Bar. Reset.	Closed	
	04/08/2019 15:50		Production	Screen Reject. Dump.	Closed	
	04/08/2019 15:45		Production	Dryer fire. Greycon corrected.	Closed	

Lets take a look

WISH LIST

- Better tracking of “memos” ✓
- Scheduling of recurring tasks ✓
- Digitized operator log entries ✓
- Automatic data entry for logs ✓
- Easily review past log entries


Operations Logbook
https://pilots.j5int.com/logbook_standard/view/general_logbook?#Lv01/general_logbook
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Add
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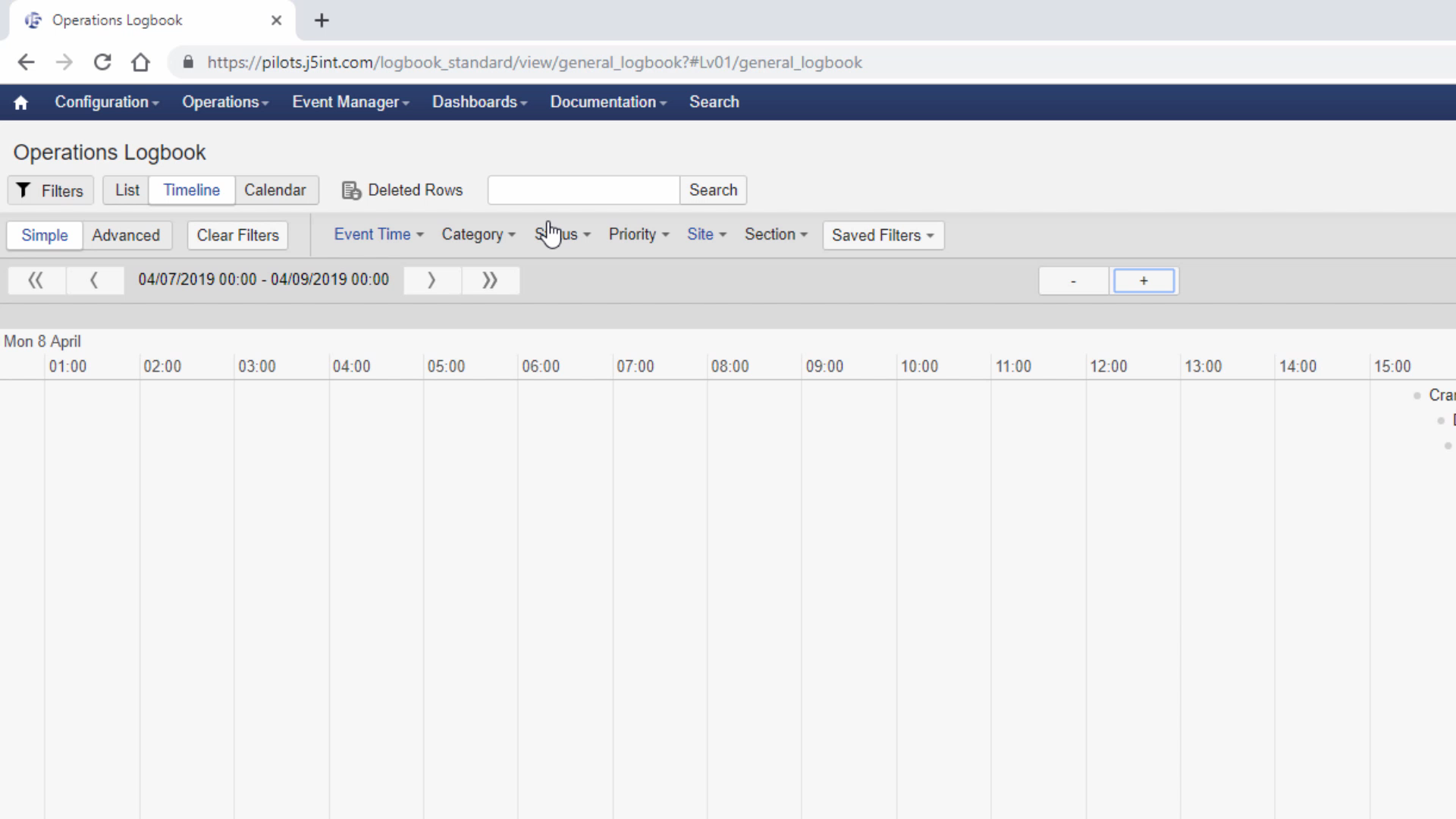
04/24/2019 12:41
Davidson OSB Plant > Blending
Operations
Refill resin hopper. Truck Late.
Closed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Category
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Saved Filters
04/07/2019 00:00 - 04/09/2019 00:00
-
+
Mon 8 April
01:00
02:00
03:00
04:00
05:00
06:00
07:00
08:00
09:00
10:00
11:00
12:00
13:00
14:00
15:00

Operations Logbook

https://pilots.j5int.com/logbook_standard/view/general_logbook?#Lv01/general_logbook

Configuration | Operations | Event Manager | Dashboards | Documentation | Search | issroadshow (Power User)

Operations Logbook

Filters | List | Timeline | Calendar | Deleted Rows | Search

Simple | Advanced | Clear Filters | Event Time | Category | Status | Priority | Site | Section | Saved Filters

04/07/2019 00:00 - 04/09/2019 00:00

Mon 8 April

15:10 15:20 15:30 15:40 15:50 16:00 16:10 16:20 16:30 16:40 16:50 17:00 17:10 17:20 17:30 17:40 17:50 18:00 18:10 18:20 18:30 18:40 18:50 19:00

Crane down due to ca... Closed
Press Hydraulics low... Closed
Primary cyclone High... Closed
John and Tom called ... Closed
ESP went down for an... Closed
Break time.... Clos
Dryer fire. Greycon... Closed
Safety Walk started.... Closed
Contractors ran over... Closed
R&D wants to run a t... Closed
Strapper needs new b... Closed
Screen Reject. Dump.... Closed
Contractors need ass... Closed
All q

Event Time	04/08/2019 15:50
Category	Production
Message	Screen Reject. Dump.
Status	Closed
Notes	

View full entry

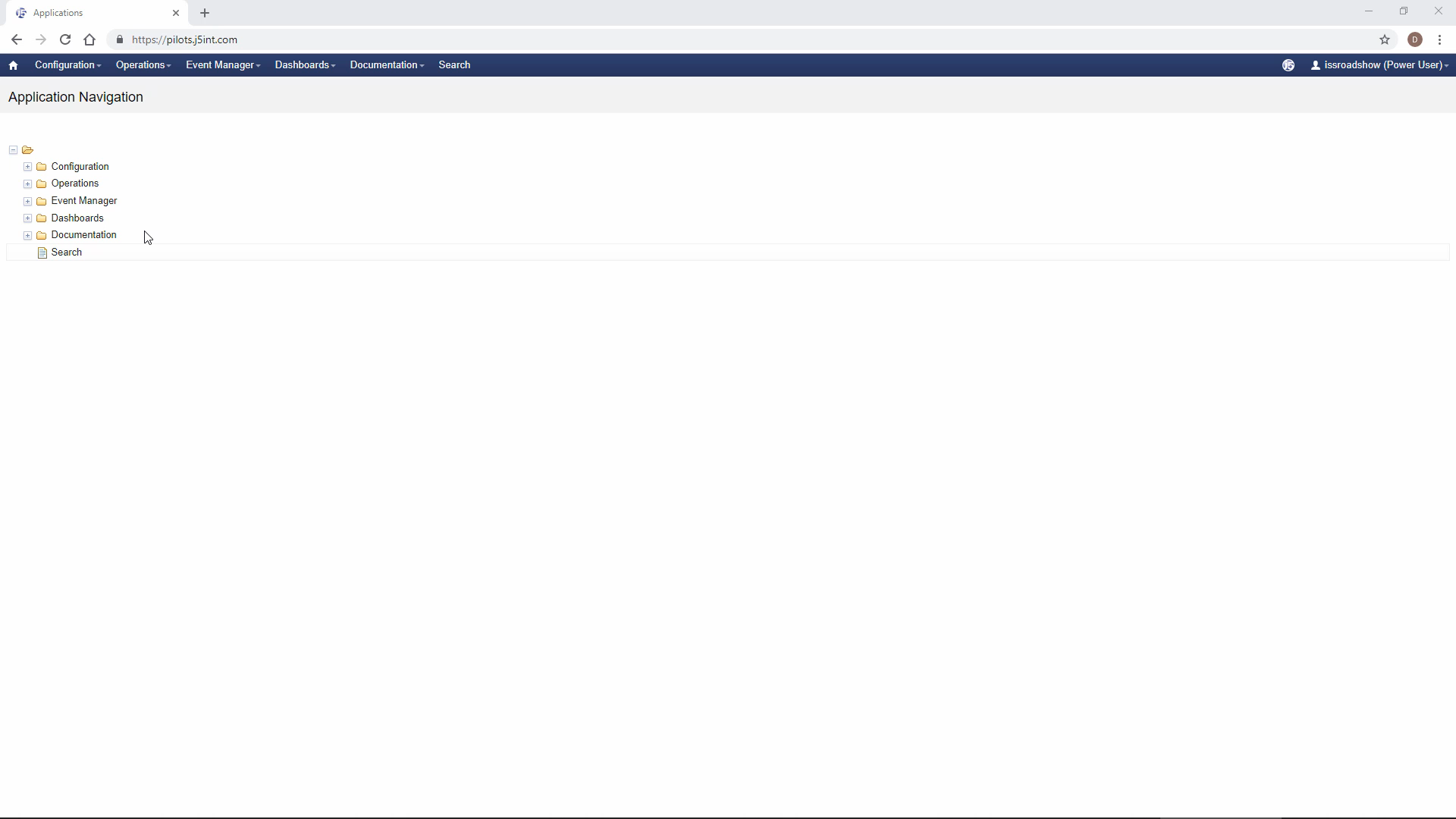
https://pilots.j5int.com/logbook_standard/view/general_logbook#Lv01/general_logbook/ID1554944368277294719327

Lets take a look

WISH LIST

- Better tracking of “memos” ✓
- Scheduling of recurring tasks ✓
- Digitized operator log entries ✓
- Automatic data entry for logs ✓
- Easily review past log entries ✓
- Better communication between shifts

On average, Shift-Handovers consume only 5% of Operations Time
Done poorly, they can be responsible for up to 40% of incidents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Shift Handover

https://pilots.j5int.com/logbook_standard/view/handover_logbook#Lv01/handover_logbook/ID1556370006344417

Configuration | Operations | Event Manager | Dashboards | Documentation | Search

SHIFT HANDOVER

Shift Handover > Day - Apr 27, 2019 - OSB Plant - Handover Re... < >

Summary | InSource OSB Handover | OSB Plant - Handover Report..... | Operations Logbook (1) | Shift Crew | Work List (20+) | Stand

INCOMING SUPERVISOR	Daniel London	OUTGOING SUPERVISOR	Dillon Perera

Shift Supervisor Handoff Report

Status	Underway		Handover Start
Shift Summary Comments			

Unit	Target	Actuals

Shift Handover

https://pilots.j5int.com/logbook_standard/view/handover_logbook#Lv01/handover_logbook/ID1556370006344417

Configuration | Operations | Event Manager | Dashboards | Documentation | Search

SHIFT HANDOVER

Shift Handover > Day - Apr 27, 2019 - OSB Plant - Handover Re... < >

Summary | InSource OSB Handover | OSB Plant - Handover Report..... | Operations Logbook (1) | Shift Crew | Work List (20+) | Stand

	INCOMING SUPERVISOR	Daniel London	OUTGOING SUPERVISOR	Dillon Perera

Shift Supervisor Handoff Report

Status	Underway		Handover Start

Shift Summary Comments

Did not meet production, overall a really bad day.

Unit	Target	Actuals

Shift Handover

https://pilots.j5int.com/logbook_standard/view/handover_logbook#Lv01/handover_logbook/ID155637000634441756021 9/732348

Configuration | Operations | Event Manager | Dashboards | Documentation | Search

SHIFT HANDOVER

Shift Handover > Day - Apr 27, 2019 - OSB Plant - Handover Re... < >

Summary | InSource OSB Handover | OSB Plant - Handover Report..... | Operations Logbook (1) | Shift Crew | Work List (20+) | Standing Orders

	INCOMING SUPERVISOR	Daniel London	OUTGOING SUPERVISOR	Dillon Perera

Shift Supervisor Handoff Report

Status	Underway		Handover Start
Shift Summary Comments			
	Did not meet production, overall a really bad day.		

	Unit	Target	Actuals
Boards Produced	Bdft	466000	249648

3234883-aa5f-4338-a9b8-cc776c1fbe8c

issroadshow (Power User)

ers

Refresh Data

04/27/2019 09:00

Handover Finish

Comments

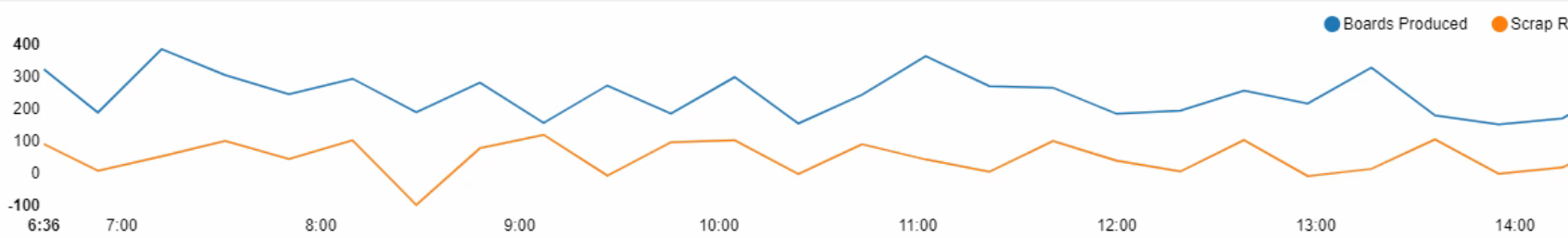
371.0

Dryer and Flaker went out, causing reduced production.

Show Notes/Flags (0) | Add a note or flag

Process History

Production Rates



Description	Tag Number	Unit	Target	Actuals		Remarks
NN feed to D-1132	FIC100	Kg/Hr	0	54.57	40.5	
NN feed to D-1133 outlet	FRQ60	Kg/Hr	500	300	300.0	
K-1134 Top Pressure	FT001	barg	1.58	105.74	102.9	
Top Temperature	OK100	Deg C	94	5.84	4.9	
K-3243Top Pressure	PL033	barg	0.19	10.25	10.1	
Top Temperature	TU131	Deg C	83	19.1	9.7	
M-1221 Water Analyzer	WT03	%	3,0			
K-2389 Cold feed to K2311	T337	Kg/Hr	Hold High			
K-564 Underflow to K2323	OK100	Kg/Hr	Hold High			
K-7654 Tray 2 Temperature	J5100	Deg C	Hold High			

Show Notes/Flags (0) | Add a note or flag

Shift Handover

https://pilots.j5int.com/logbook_standard/view/handover_logbook#Lv01/handover_logbook/ID1556370006344417560219/73234883-aa5f-4338-a9b8-cc776c1fbe8c

Configuration | Operations | Event Manager | Dashboards | Documentation | Search | issroadshow (Power User)

SHIFT HANDOVER

Shift Handover > Day - Apr 27, 2019 - OSB Plant - Handover Re...

Summary | InSource OSB Handover | OSB Plant - Handover Report..... | Operations Logbook (1) | Shift Crew | Work List (20+) | Standing Orders

Refresh Data

INCOMING SUPERVISOR	Daniel London	OUTGOING SUPERVISOR	Dillon Perera

Shift Supervisor Handoff Report

Status	Underway	Handover Start	04/27/2019 09:00	Handover Finish	

Shift Summary Comments

Did not meet production, overall a really bad day.

	Unit	Target	Actuals		Comments
Boards Produced	Bdft	466000	249648	371.0	Dryer and Flaker went out, causing reduced production.

Show Notes/Flags (0) | Add a note or flag

Please complete all required inputs. | Highlight required inputs | Submit

Log Entries

Time	Category	Message	Status	Escalate
04/16/2019 11:52	Operations_ISSRoadshow	No real problems - wanted to see if you are reading this	Open	

Show Notes/Flags (0) | Add a note or flag | Submit

Task List

Operational Tasks

Planned Start Time	Area	Description of Work	Assigned Group	Category	Due	Status
04/26/2019 12:05	Davidson OSB Plant	Do some wood work	Operator	Regular Work	Overdue	Awaiting Start

Show Notes/Flags (0) | Add a note or flag | Submit

Process History

Production Rates

400

Boards Produced | Scrap Rate

Shift Handover

https://pilots.j5int.com/logbook_standard/view/handover_logbook#Lv01/handover_logbook/ID1556370006344417560219/73234883-aa5f-4338-a9b8-cc776c1fbe8c

Configuration | Operations | Event Manager | Dashboards | Documentation | Search | issroadshow (Power User)

SHIFT HANDOVER

Shift Handover > Day - Apr 27, 2019 - OSB Plant - Handover Re...

Summary | InSource OSB Handover | OSB Plant - Handover Report..... | Operations Logbook (1) | Shift Crew | Work List (20+) | Standing Orders

Refresh Data

INCOMING SUPERVISOR	Daniel London	OUTGOING SUPERVISOR	Dillon Perera

Shift Supervisor Handoff Report

Status	Underway	Handover Start	04/27/2019 09:00	Handover Finish	

Shift Summary Comments

Did not meet production, overall a really bad day.

	Unit	Target	Actuals		Comments
Boards Produced	Bdft	466000	249648	371.0	Dryer and Flaker went out, causing reduced production.

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Please complete all required inputs. | Highlight required inputs | Submit

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Show Notes/Flags (0) | Add a note or flag | Submit

Process History

Production Rates

400

Boards Produced | Scrap Rate

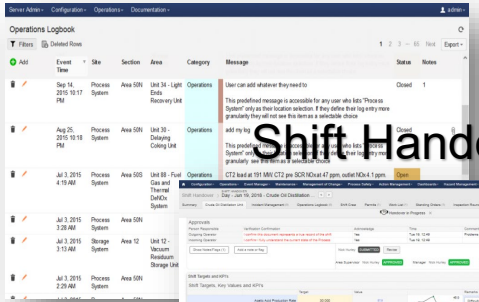
Lets take a look

WISH LIST

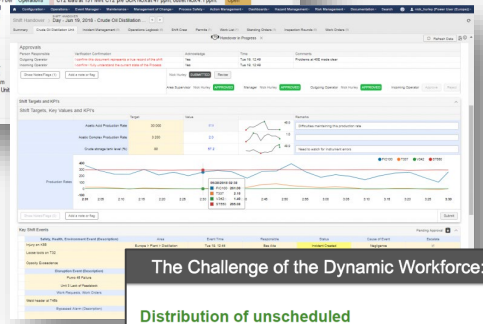
- Better tracking of “memos”
- Scheduling of recurring tasks
- Digitized operator log entries
- Automatic data entry for logs
- Easily review past log entries
- Better communication between shifts

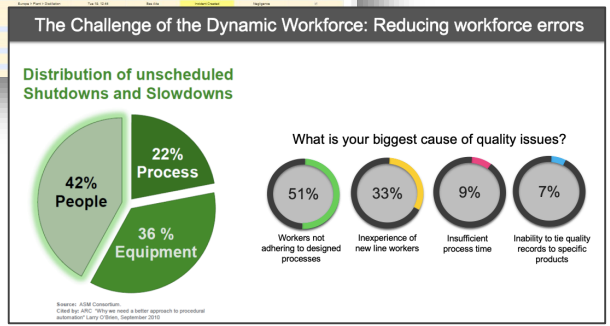
Summary – eLogging moves us toward digitization

Operator Logbook



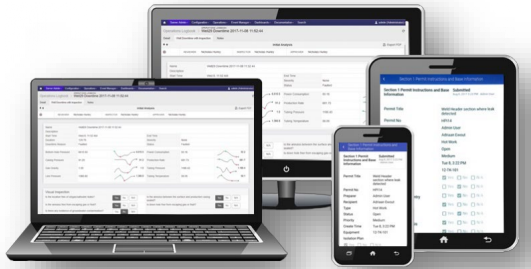
Shift Handover





J5 international

1. Eliminates paper, Reduces Errors & Risk in Logbook & Shift handover
2. Establishes shift cadence by enforcing standards, methods, & work list
3. Mobile - anywhere, anytime | Frictionless Collects data from existing systems



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