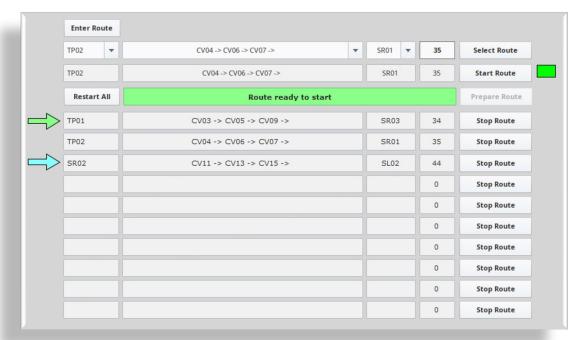
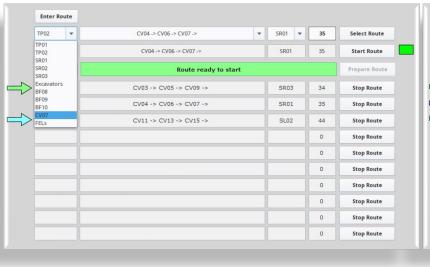


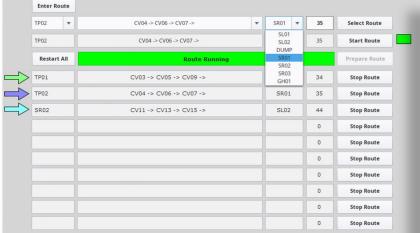


Terminal de Carvão da Matola (TCM) – Route Selection



Select Source Select Destination Select VIA





	Enter Ro	ute						
	TP02 ▼			CV04 -> CV06 -> CV07 ->	-	SR01 ▼	35	Select Route
	TP02			CV04 -> CV06 -> CV07 -> CV03 -> CV05 -> CV07 ->		SR01	35	Start Route
	Restart All			Route Running			Prepare Route	
⇒	TP01			CV03 -> CV05 -> CV09 -> S		SR03	34	Stop Route
>	TP02			CV04 -> CV06 -> CV07 ->	SR01	35	Stop Route	
>	SR02			CV11 -> CV13 -> CV15 ->		SL02	44	Stop Route
							0	Stop Route
							0	Stop Route
							0	Stop Route
							0	Stop Route
							0	Stop Route
							0	Stop Route
							0	Stop Route



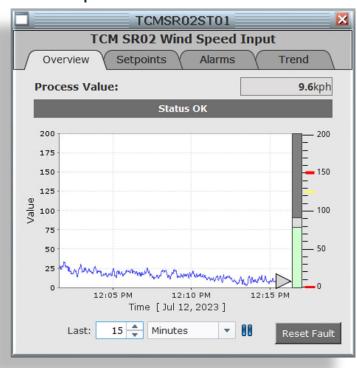


Integrated Pop-Ups: Canary Data

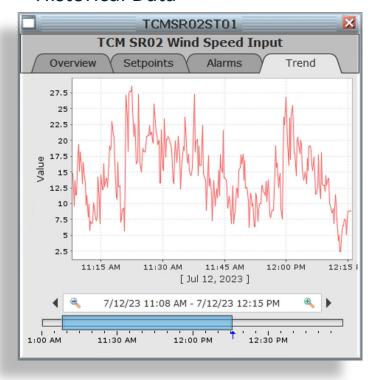


Terminal de Carvão da Matola (TCM) – Implementation of Canary Data Pop-Ups

-Live Spark Chart



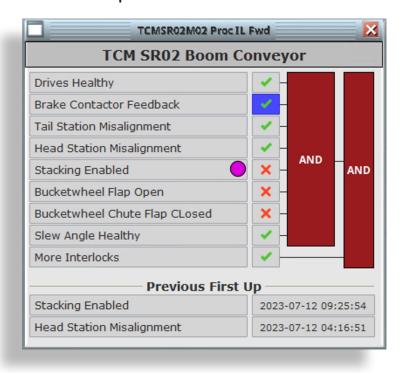
-Historical Data





Terminal de Carvão da Matola (TCM) – Root cause analysis and stop reason capturing

-Last Stop Reason on Interlocks

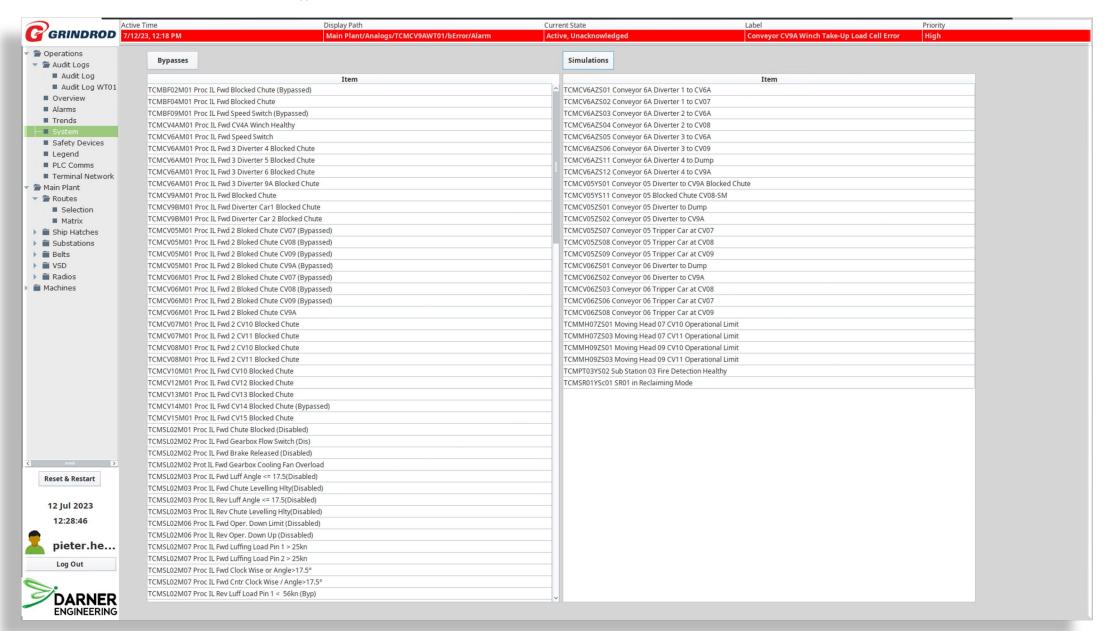


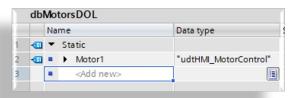
-Downtime classification



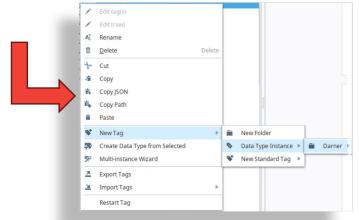


Terminal de Carvão da Matola (TCM) – Plant wide list of bypasses and simulation

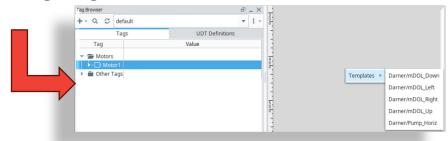




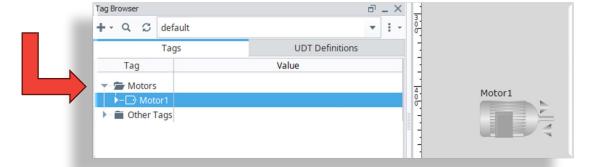
-Create DB with Motor Data type



-Create Tag in Ignition with Motor UDT



-Pull tag onto window choose template







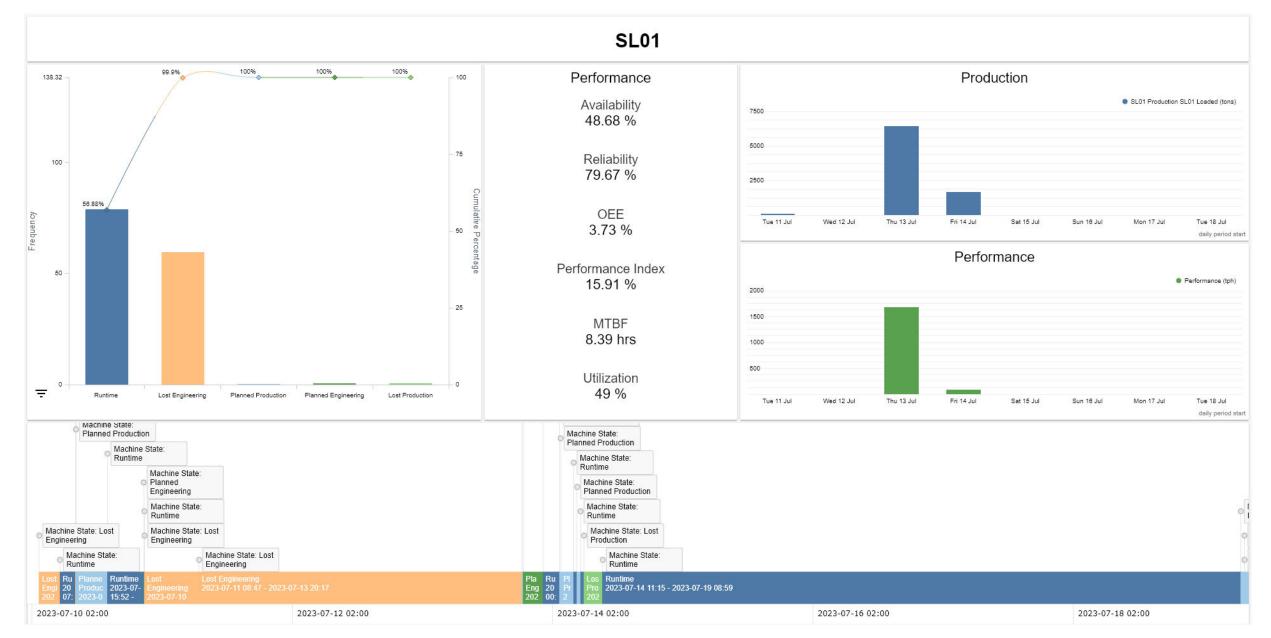
Flow Reporting and Dashboards



Terminal de Carvão da Matola (TCM) – Daily Operational Report



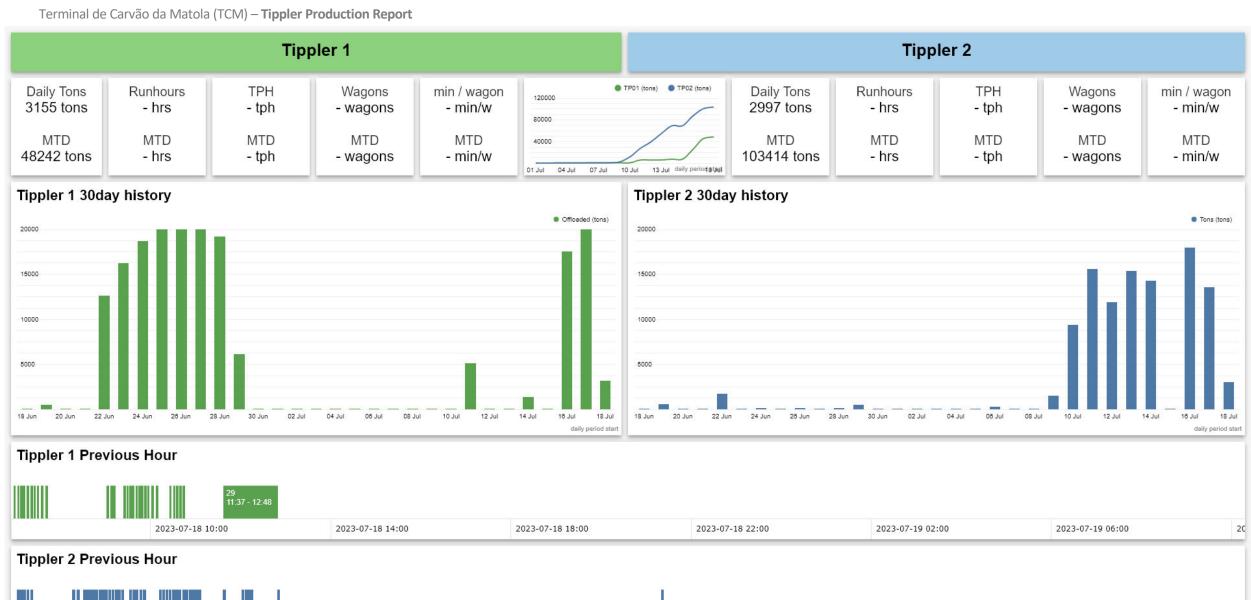
Terminal de Carvão da Matola (TCM) – Weekly Engineering Report





2023-07-18 10:00

2023-07-18 14:00



2023-07-18 18:00

2023-07-18 22:00

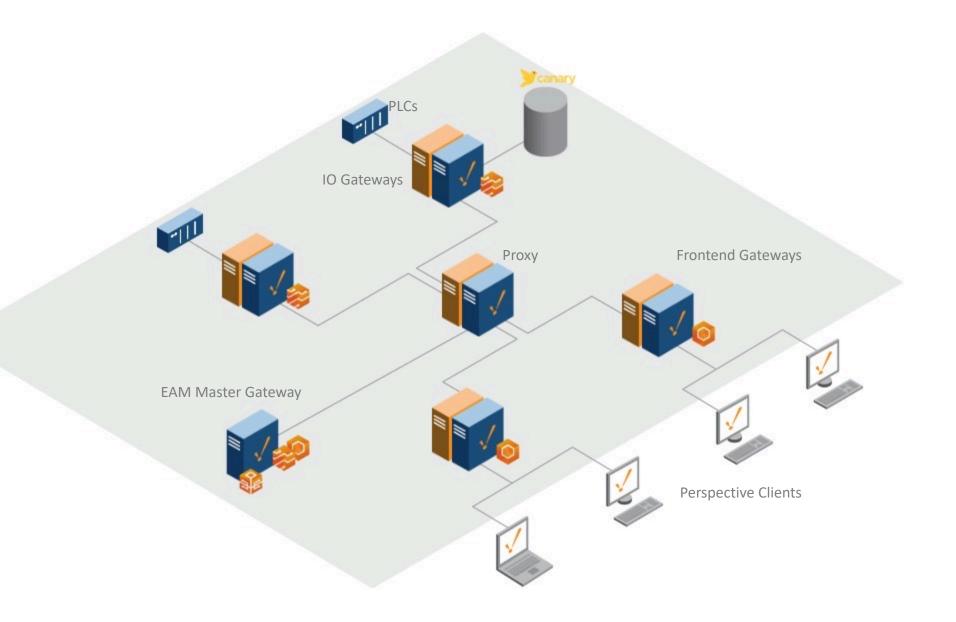
2023-07-19 02:00

20

2023-07-19 06:00





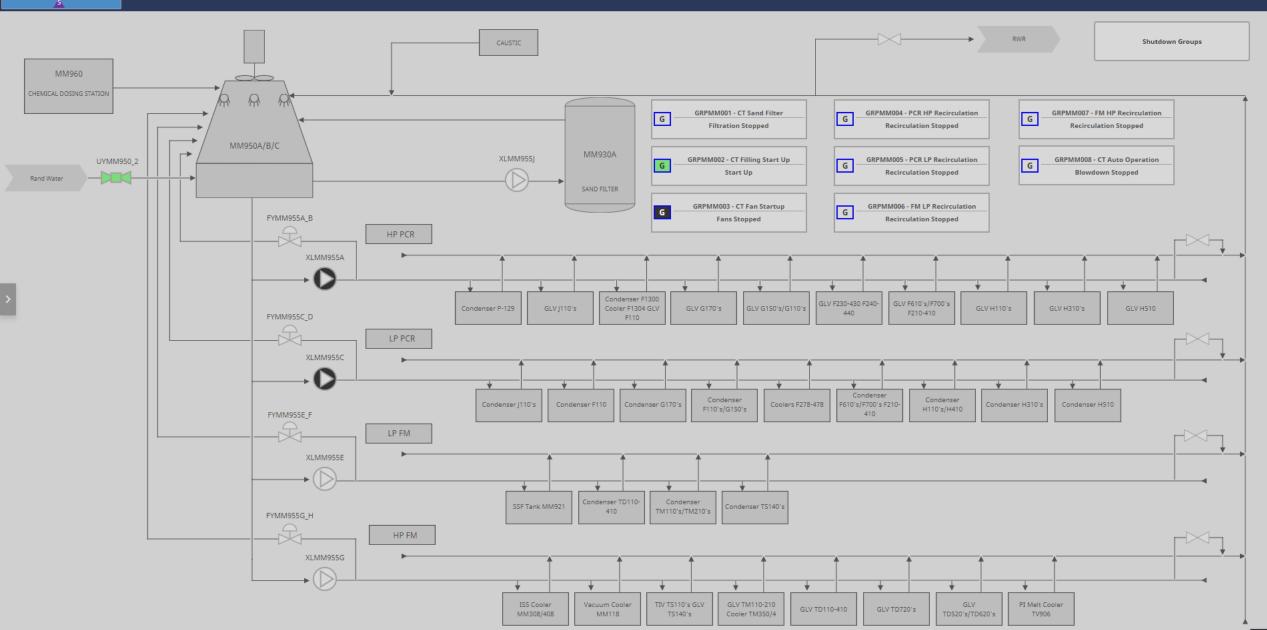




Advansys

Cooling Water

Overview



Alarms

Alarm Summary For: Utilities/Cooling Water*

Priority ‡	Total ‡	ActiveUnackCount 🕏	ActiveAckCount 🕏	ClearUnackCount 🕏	ShelvedCount 🕏
Overall	5	2	1	2	0
Critical	0	0	0	0	0
High	0	0	0	0	0
Medium	0	0	0	0	0
Low	5	2	1	2	0

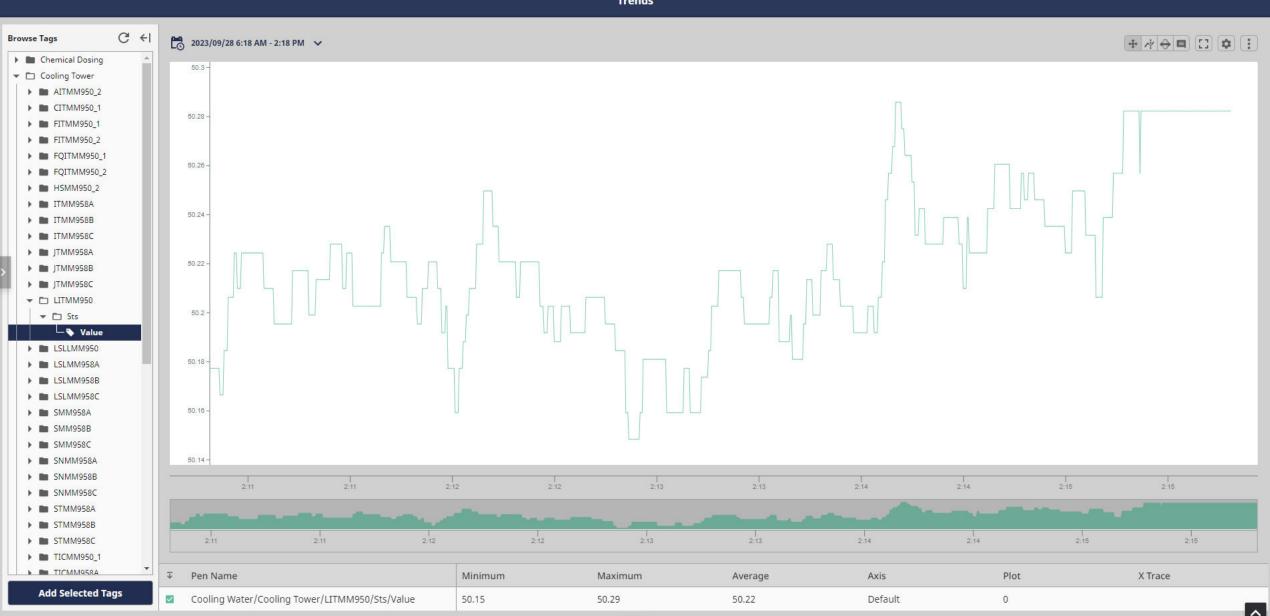
	Alarms For: Utilities/Cooling Water*						
Current Journal							
☐ Active Time	Display Path	Priority	[♣] State [♣] ²	Source 🚔	Name		
O9/28/2023 12:47:35	Utilities/Cooling Water/Cooling Tower/LITMM950/Alarms/Low	Low	Active, Acknowledged	prov.fmmm01:/tag:Utilities/Cooling Water/Cooling Tower/LTTMM950/Alarms/Low/Sts/Active:/alm:Alarm	Alarm		
O9/14/2023 11:23:55	Utilities/Cooling Water/Chemical Dosing/XLMM560A/Alarms/LocalStop	Low	Active, Unacknowledged	prov:fmmm01:/tag:Utilities/Cooling Water/Chemical Dosing/XLMM560A/Alarms/LocalStop/Sts/Act	Alarm		
O9/14/2023 11:23:27	Utilities/Cooling Water/Fan Filter Units/XLN800/Alarms/LocalStop	Low	Active, Unacknowledged	prov:fmmm01:/tag:Utilities/Cooling Water/Fan Filter Units/XLN800/Alarms/LocalStop/Sts/Active:/	Alarm		
O9/28/2023 12:47:31	Utilities/Cooling Water/Water Recirculation/FM/XLMM955G/Alarms/Available	Low	Cleared, Unacknowledged	prov:fmmm01:/tag:Utilities/Cooling Water/Water Recirculation/FM/XLMM955G/Alarms/Available/Sts/Act	Alarm		
O9/28/2023 12:47:31	Utilities/Cooling Water/Water Recirculation/FM/XLMM955E/Alarms/Available	Low	Cleared, Unacknowledged	prov:fmmm01:/tag:Utilities/Cooling Water/Water Recirculation/FM/XLMM955E/Alarms/Available/Sts/Acti	Alarm		





Trend

Trends





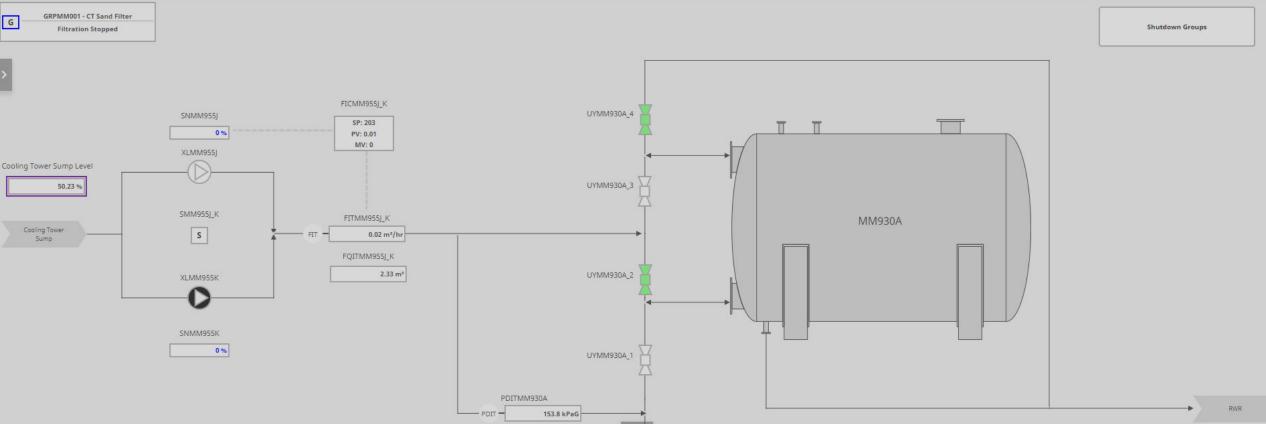








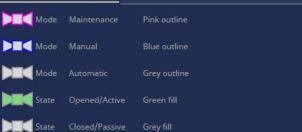
MIMPLATS



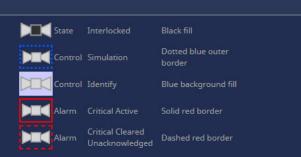
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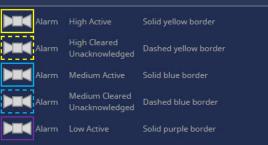
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Control Module Legend



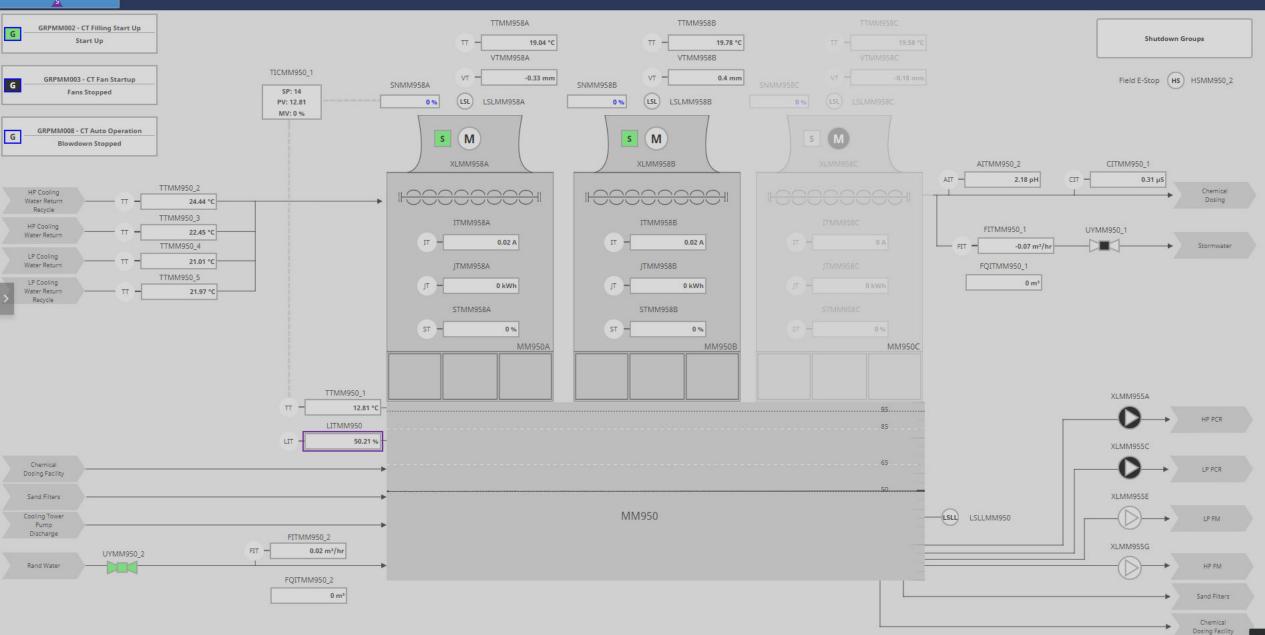






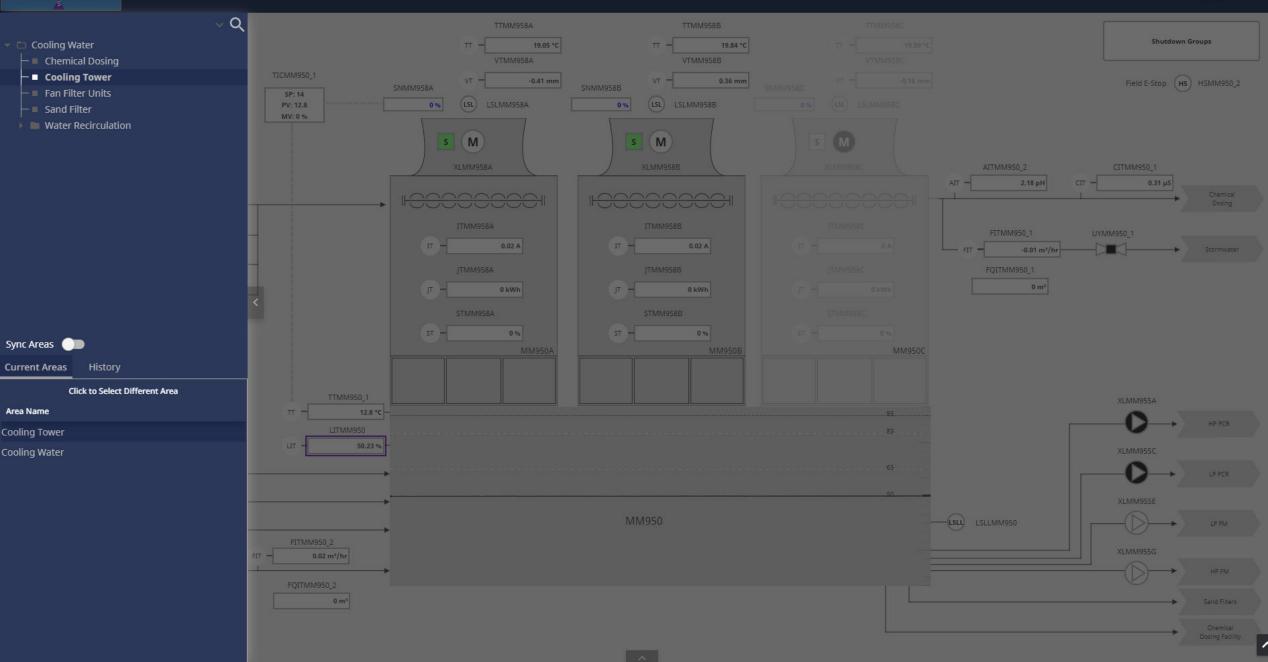
Cooling Water



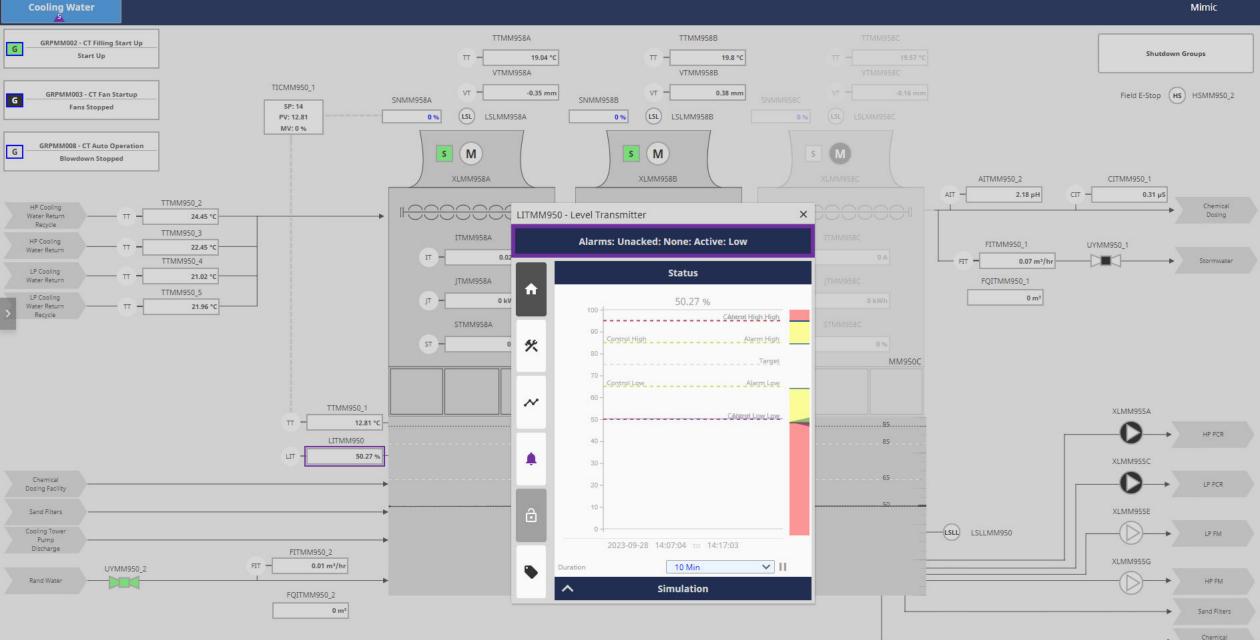




Vimic

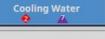


Mimic



Dosing Facility

Mimic



ooling Tower Sump Level

Cooling Tower

Sump

67.68 %

GRPMM001 - CT Sand Filter Filtration in Progress

Shutdown Groups FICMM955J_K UYMM930A_4 SNMM955J SP: 203 m³/hr 64.86 % PV: 202.65 m³/hr MV: 64.87 % XLMM955J UYMM930A_3 - Valve × UYMM930A_3 [State:Opened] [Alarms: Unacked: None; Active: None] [Interlock: Healthy] SMM955J_K FITMM955J_K Status S 202.38 m3/hr FQITMM955J_K Command Open 2.66 m³ UYMM930A_2 XLMM955K Opened * SNMM955K False 64.9 % UYMM930A_1 N True False PDITMM930A 1:08 1:09 1:10 1:11 1:12 1:13 1:14 1:15 1:18 1:17 RWR 28.36 kPaG 10 Min Duration VII Operation ∂ Mode Maintenance Cooling Tower Return Command Open Close

Backwash Running Total

2.66 m³

^

Simulation





