DESIGN SYSTEMS, INC.

ManufacturingEngineering&Consulting

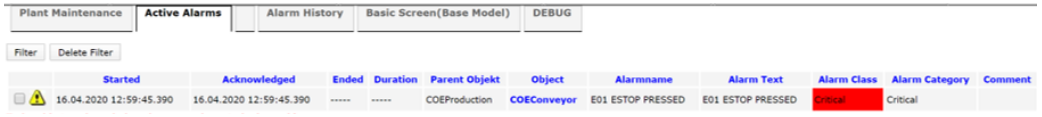
Excellence by Design

MITS

Maintenance Support

Plant Maintenance

Unplanned stoppages are a significant source of waste in the manufacturing environment. From unreliable equipment to overly complex processes, these events can derail the goals of the manufacturing organization and result in substantial costs in both money and reputation. However, with the right approach, this type of waste can be effectively managed. Alongside a disciplined maintenance procedure, reliable and quantifiable data can help lead preventative maintenance activities in the right direction, targeting the root cause of downtime and measuring the effectiveness of remedial activities.



The DSI Advantage

Our Maintenance Support Module offers a comprehensive solution for managing unplanned stoppage events by leveraging various tools such as overhead graphics displays, alarm status displays, and mobile technology. By facilitating timely communication to the maintenance team, we can significantly reduce the duration of downtime events and Mean Time To Repair (MTTR), thus minimizing their impact on production and associated costs. Proactive management of maintenance schedules and disciplined processes can also help to prevent unplanned stoppages from occurring in the first place. Through proper analysis of historical downtime events, we can identify root cause of the issues and implement targeted continuous improvement activities to address them. Regular use of these analysis tools can also help to measure the effectiveness of your efforts and provide a data-driven standard for future benchmarking. By utilizing our Maintenance Support Module, organizations can streamline their maintenance processes, reduce lost production time, and improve overall equipment effectiveness.

Top 10 Alarm Occurences Last 24 Hours
Sorted By No. Occurances
Execution Time: 1/21/2016 4:45:10 PM

Overall Top 10 Alarms Based on Total Number of Occurances over last 24 Hours

Station	Alarm	Alarm Number	Alarm Class	No. Events	Total Duration	Avg Duration	Longest Single Event
OP460-F01	OP460-R01 DROPOFF OVER CYCLE TIME ~ OP460_F01_Faults[16],27	539	Robot Warning	591	00:53:04	00:00:05	00:00:38
OP480-F01	OP480-R02 DROPOFF OVER CYCLE TIME ~ OP480_F01_Faults[19],27	635	Robot Warning	310	00:41:46	00:00:08	00:00:43
Zone-2A	ZONE 2A STARVED ~ Zn1_Faults[12],31	415	Starved	177	01:09:58	00:00:23	00:06:55
OP200-F02	STATION OPERATOR LOAD 1 OVER CYCLE TIME ~ OP200_F02_Faults[0],11	11	Operator Error	161	03:30:13	00:01:18	00:39:41
OP240-L01	OPERATOR RUNBAR 1 CYCLE START PB FAULTED ~ OP240_L01_Faults[1],1	33	Operator Error	119	00:27:06	00:00:13	00:01:06
OP240-L02	OPERATOR RUNBAR 1 CYCLE START PB FAULTED ~ OP240_L02_Faults[1],1	33	Operator Error	119	00:30:47	00:00:15	00:01:02
OP480-F01	OP480-R01 DROPOFF OVER CYCLE TIME ~ OP480_F01_Faults[16],27	539	Robot Warning	106	00:09:44	00:00:05	00:00:46
OP444-F03	OPERATOR RUNBAR 1 CYCLE START PB FAULTED ~ OP444_F03_Faults[1],1	33	Operator Error	103	00:10:22	00:00:06	00:00:23
OP314-F01	OP314-F01 OPERATOR LOAD 1 OVER CYCLE TIME ~ OP314_F01_Faults[0],11	11	Unassigned Class	82	01:57:27	00:01:25	00:22:01
OP334-F01	STATION OPERATOR LOAD 1 OVER CYCLE TIME ~ OP334_F01_Faults[0],11	11	Operator Error	72	02:04:09	00:01:43	00:25:03

Top 10 Alarms for Each Classification over last 24 Hours

Station	Alarm	Alarm Number	Alarm Class	No. Events	Total Duration	Avg Duration	Longest Single Event
OP444-F03	OP444-F03 WK / WO D-PILLAR PART PRESENT PP6 DN03_Bit23.1.b00 FAILED OFF ~ OP444_F03_Faults[3],7	103	Part Placement or Presence Error	8	00:02:49	00:00:21	00:01:47
OP440-C01	OP440-C01 LOAD LH PE3 PART PRESENT FAILED OFF ~ OP440_C01_Faults[3],7	103	Part Placement or Presence Error	6	00:01:16	00:00:12	00:00:20
OP610-F01	OP610-F01 RH PRE-LOADER PPSR PART PRESENT FAILED OFF ~ OP610_F01_Faults [3],3	99	Part Placement or Presence Error	6	00:12:38	00:02:06	00:04:25

Real-World Applications

Alarm Annunciation and Alerts:

Increases maintenance teams' reaction times with visual and mobile alerts.

Reactive Maintenance Management:

Generate and manages maintenance orders based on unplanned events.

Preventative Maintenance Management:

Prevent unplanned downtime with preventative maintenance triggers.

Integration with Maintenance Systems:

Seamlessly integrates with your systems or functions as a stand-alone solution.

Continuous Improvement Reports:

Focus on continuous improvement efforts through fact-driven event reports.

DSI DELIVERS

- Faster reaction to unplanned stoppages.
- Improved focus for preventative maintenance activities.
- More disciplined maintenance.

DESIGN SYSTEMS FAMILY OF COMPANIES

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