Digitize Your Spreadsheet Shift Handovers

With j5 Operations Management Solutions

17/06/2017 Morning Handover
Roger Copperfield
John Smith
Distillation

...or called...issues with valve on discharge. Says
...ishers being tested near main tank.
...nit 2 is down for maintenance (wasn't in Shift H...
...Manual... opening up to increase level.
...Back to 30% (wasn't aware this was being teste...
...22 .. work on hold waiting for gas measurement...
...et hold of John .. operator still waiting.
...alled to ask for test sample on position 34 in ou...
...n alarm is driving me crazy.. I thought this was...
...target on flow... still waiting for tech to work v...
...ow to 35% (instructions from supervisor) becau...

Sheet 3

Isn't it time to digitally transform your shift handover procedures?

It is now accepted that the use of inadequate communication and data collection methods, such as spreadsheet shift handovers, has contributed to cause catastrophic industrial accidents.

The high risks of poor shift handover procedures have been highlighted on numerous CSB and HSE investigation reports over many years, with strong advice to improve these critical communications.

There is a host of compelling reasons to reconsider the use of spreadsheet shift handovers, as outlined below.

Lack of Visibility

With spreadsheet shift handovers, information is stuck in the control room. When an industrial event happens, critical data is not available unless the logger verbally speaks to their colleagues or shows them the actual record they wrote. This may lead to missing vital follow-up actions and to potential hazards.

Tedious Data Search

Spreadsheet logbooks are usually stored across many digital folders as hundreds of different files, making the process of finding specific information a laborious task. Searching for key operations information can be like finding a needle in a haystack, which is unacceptable in the digital age of process safety.
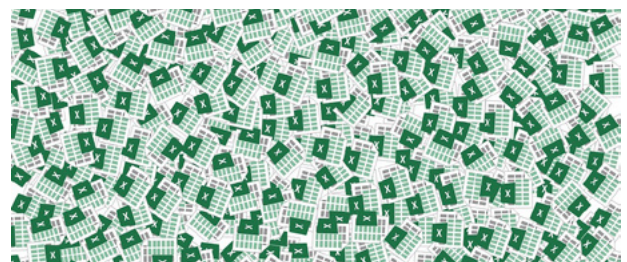
Why persist with troublesome spreadsheet shift handovers at dangerous industrial facilities?

There is an important requirement for more efficient, consistent and detailed data at this crucial point of day-to-day operations.

Manual Data Collection

Real-time operations and maintenance data has to be recorded manually. Not having immediate, seamless access to this information across an industrial site can slow down strategic decision making and have a serious impact on efficiency, production and safety.

Low Flexibility

There are many changes to shift handover procedures over the life of an industrial site. This means that data collection methods often need to be adapted, leading to many different versions of spreadsheet shift handovers, all which need to be tailored individually and shared across sites.

Procedures not Followed

With spreadsheet shift handovers, there is no guarantee that everyone follows the correct procedures. No pre-defined entry structure can, in fact, cause confusion, leading to inconsistent data entries and inefficient reporting. Small spreadsheet cells encourage using abbreviations, which can make information incomprehensible or could be misinterpreted.

No Mobile Capabilities

Personnel have to get back to the control room to access shift handover information. This affects productivity in the plant, with valuable time consumed just to see the shift handover.

j5 Shift Handover

j5 Operations Management Solutions are one evolving framework of operations management and process safety applications connecting people and processes.

Meeting HSE Shift Handover recommendations, the j5 Shift Handover application is used by many large multinational organizations to improve shift-to-shift communication and to reduce the risk of potential hazardous accidents.

Remarkably, users of j5 Shift Handover have reported saving 30 minutes during the shift handover process. This is particularly valuable after an extended day shift, when many events have occurred.

The following are just some of the key benefits of using j5 Shift Handover.
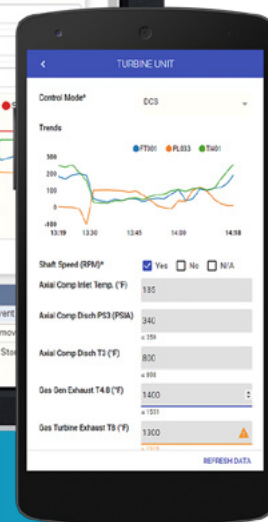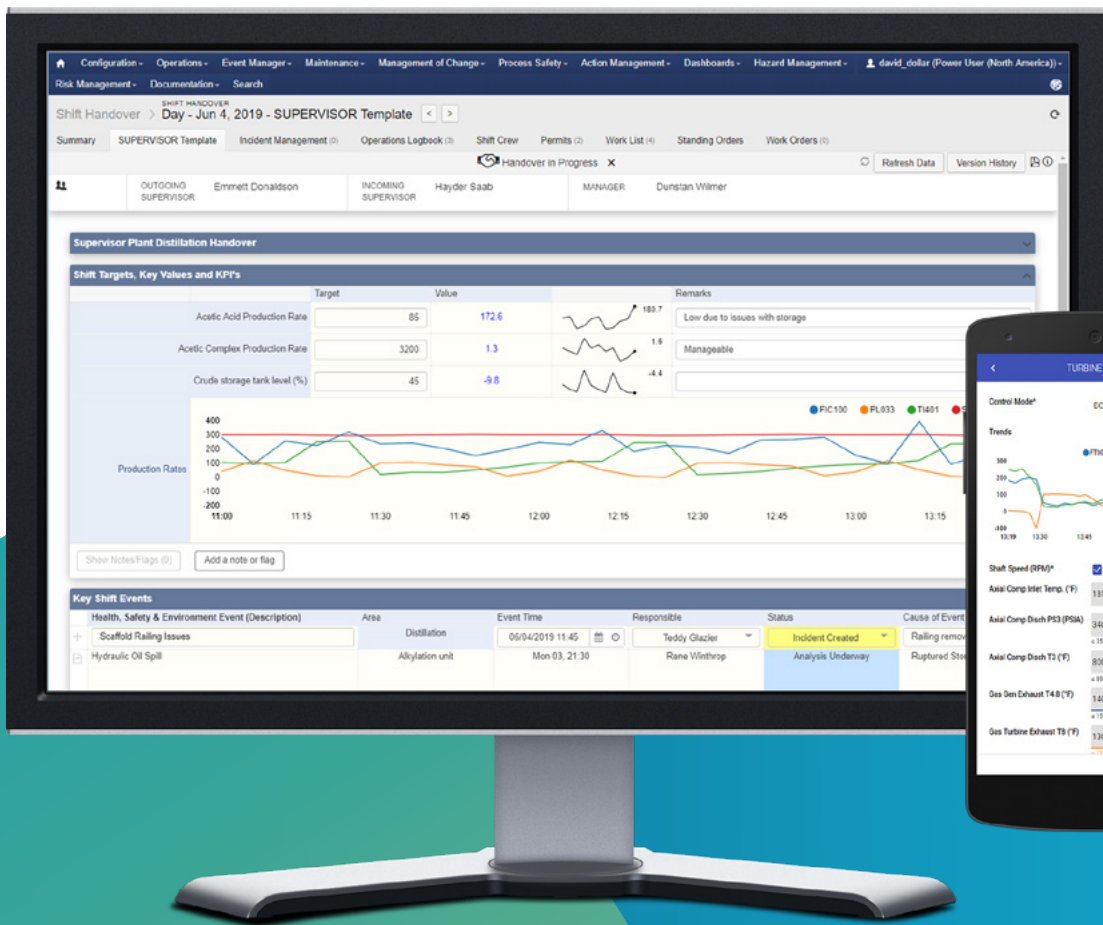
Full Visibility

j5 Shift Handover data is available to all authorized users, whether onsite or offsite. Users have access to current and historic entries using off-the-shelf query tools and drill-down capabilities. Managers and operations teams are always aware of critical plant activity through notifications, dashboards, reports and views.

Immediate Finding of Data

With j5 Shift Handover, data is always online and can be queried at any stage across the plant by all authorized users. Searching through the whole database is nearly instantaneous, which means that users can locate and action information of interest swiftly. Functionalities like filters, Boolean buttons and search engines save an enormous amount of time.

SHIFT HANDOVER
Shift Handover ▸ Day - Jun 4, 2019 - SUPERVISOR Template ‹ ›

Handover in Progress ✕   ↻ Refresh Data   Version History

| | OUTGOING SUPERVISOR | Emmett Donaldson | INCOMING SUPERVISOR | Hayder Saab | MANAGER | Dunstan Wilmer |

Supervisor Plant Distillation Handover

Shift Targets, Key Values and KPI's

	Target	Value			Remarks
Acetic Acid Production Rate	85	172.6		180.7	Low due to issues with storage
Acetic Complex Production Rate	3200	1.3		1.6	Manageable
Crude storage tank level (%)	45	-9.8		-4.4	

● FIC100   ● PL033   ● TI401   ● S

Production Rates
400
300
200
100
0
-100
-200
11:00   11:15   11:30   11:45   12:00   12:15   12:30   12:45   13:00   13:15

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

Key Shift Events

Health, Safety & Environment Event (Description)	Area	Event Time	Responsible	Status	Cause of Event
Scaffold Railing Issues	Distillation	06/04/2019 11:45	Teddy Glazier	Incident Created	Railing remov
Hydraulic Oil Spill	Alkylation unit	Mon 03, 21:30	Rane Winthrop	Analysis Underway	Ruptured Sto

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TURBINE UNIT

Control Mode*   DCS

Trends
● FT001   ● PL033   ● TI401
300
200
100
0
13:19   13:30   13:45   14:00   14:30

Shaft Speed (RPM)*   ☑ Yes ☐ No ☐ N/A

Axial Comp Inlet Temp. (°F)   185

Axial Comp Disch PS3 (PSIA)   340
                                ≤ 359

Axial Comp Disch T3 (°F)   800
                                ≤ 608

Gas Gen Exhaust T4.8 (°F)   1400
                                ≤ 1551

Gas Turbine Exhaust T8 (°F)   1300 ⚠

REFRESH DATA

Automatic Real-time Data Collection

j5 Shift Handover meets every industrial site's key requirement that real-time information is readily available. Important real-time and process data from Data Historians, CMMS, DCS, EAM, PLC and SCADA systems can be automatically interfaced with j5 Operations Management Solutions. As a result, complimentary applications are connected and information is easily shared between teams.

Off-the-shelf Enterprise Scalability

Installing and upgrading j5 Operations Management Solutions is an efficient process. A single web server allows personnel across multiple sites to access j5 Shift Handover. This saves time and financial costs, allowing customers to allocate more resources to operate their plants. The disruptive j5 IndustraForm® Templates technology makes configuring j5 Shift Handover intuitive, thanks to a familiar spreadsheet-like environment.

Procedural Compliance

j5 Shift Handover provides an efficient, repeatable and auditable shift handover procedure for multiple areas and sites. The application ensures that users follow defined procedures and intelligent workflows help operators not to make mistakes. Reports may be emailed to an unlimited number of interested recipients.
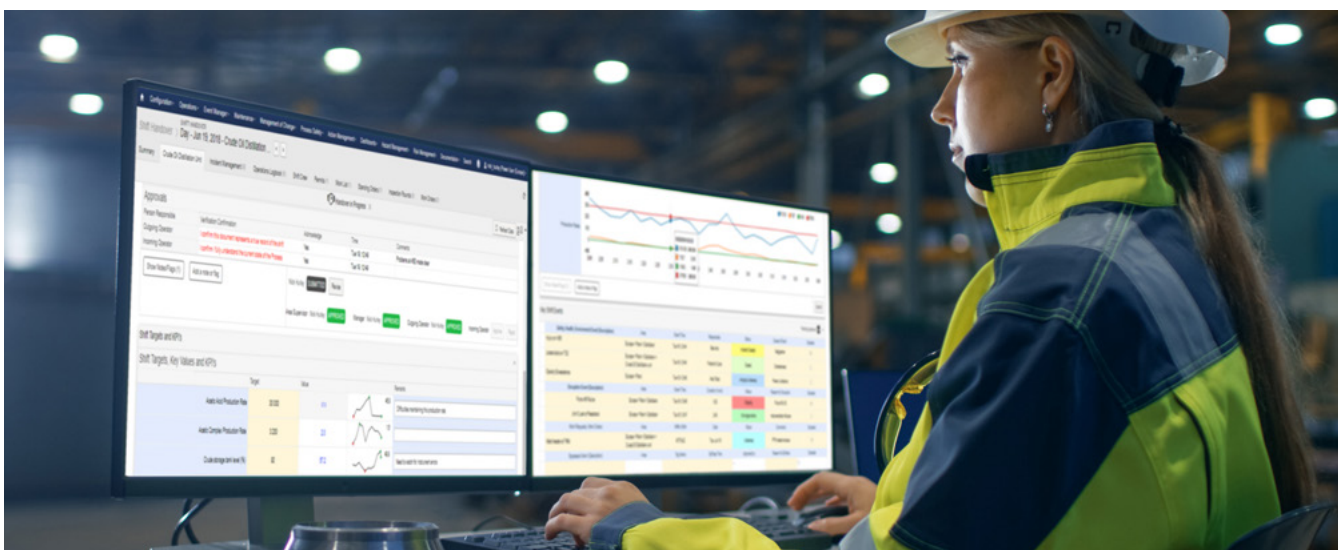
Mobility

j5 Mobility is used on industry-standard mobile devices based on popular operating systems. Any authorized user can view operations information on a mobile device, which means that staff do no need to regularly return to the control room. Thanks to j5 IndustraForm Templates, desktop and mobile applications are now in sync, and there are no advanced source code programming skills required to deploy mobile applications.

> **It has become an essential tool. Managers now have the ability to issue night orders, standing orders and new procedures and then have the ability to see that their direct report received and acknowledged."**
>
> **Plant Manager**
> Calpine

Hexagon is a global leader in sensor, software and autonomous solutions. We are putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications.

Our technologies are shaping urban and production ecosystems to become increasingly connected and autonomous — ensuring a scalable, sustainable future.

Hexagon's PPM division empowers its clients to transform unstructured information into a smart digital asset to visualize, build and manage structures and facilities of all complexities, ensuring safe and efficient operation throughout the entire lifecycle.

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