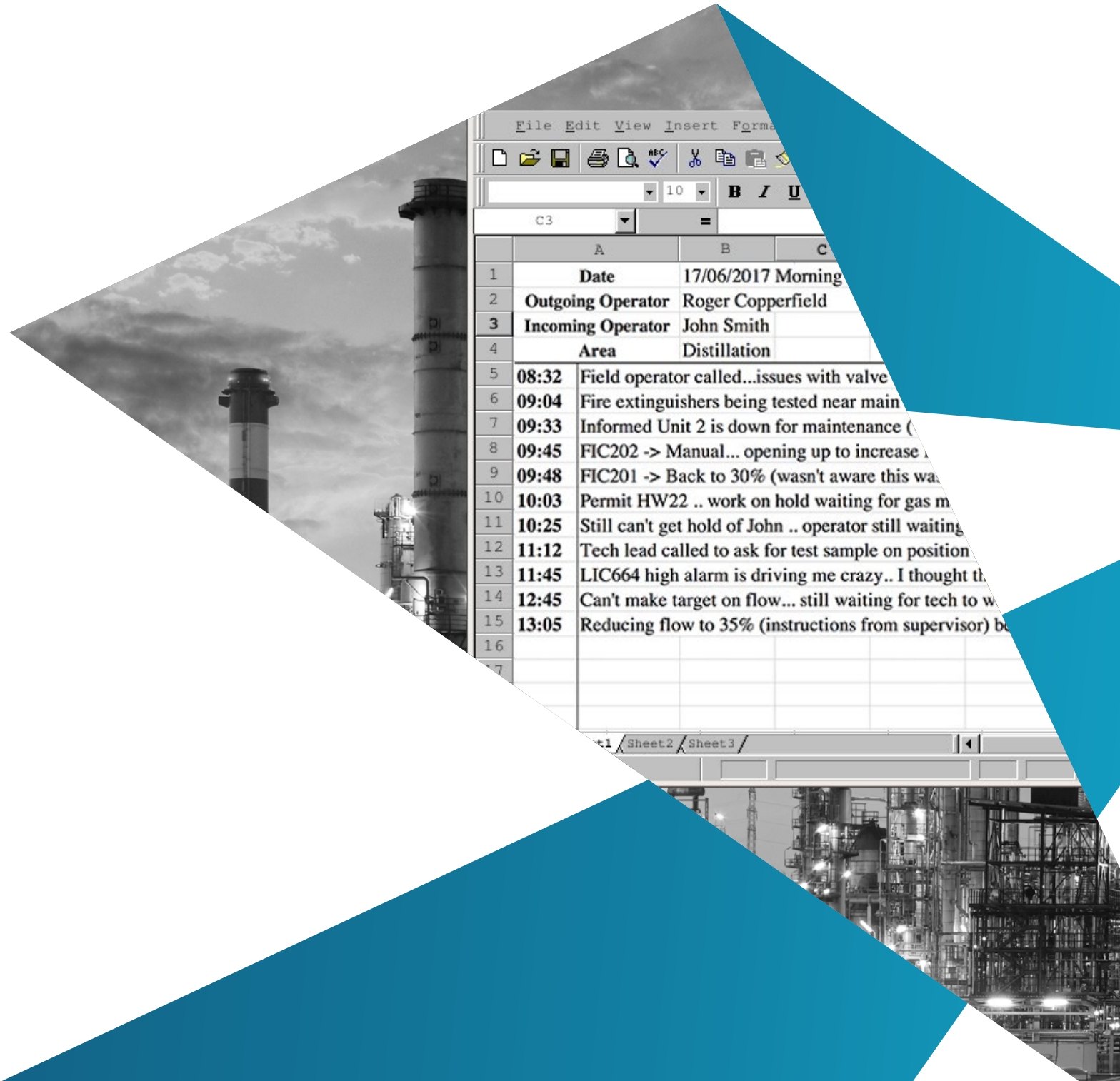
HEXAGON

Brochure

The Problem with Spreadsheet Logbooks

Is your shift handover formula corrupted?



Fact:

Spreadsheet logbooks are not collaborative, controlled, audited or mobile!

On every industrial site, there is a stream of operations, maintenance and safety events occurring at all levels and areas within the process. Unfortunately, there are still tedious and time-consuming methods, such as spreadsheets, being used to log these events. This increases organisational risk and inefficiencies.

52% of spreadsheet logbook users admit they have no method of tracking operations procedures.

"Operations Processes at Your Plant" Survey
October 2019

With the constant advancement of IT technology over the decades, spreadsheet logbooks have become obsolete. Additionally, the use of inadequate data collection methods, such as spreadsheet logbooks, has contributed to cause catastrophic industrial accidents.

There is a host of compelling reasons to reconsider the use of spreadsheet logbooks in an industrial site, as outlined below.

Lack of visibility

With spreadsheet logbooks, information is isolated, and it is impossible to know what is happening across the plant. When a safety-critical event happens, crucial data is not available unless the logger verbally speaks to their colleagues or shows them the actual record they typed in. 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. Daily spreadsheet logbooks mount up quickly over the months and years — especially because they must be kept for compliance purposes.

Zero interfacing

Due to their digitally disconnected nature, spreadsheet logbooks have no interfaces with other plant IT systems, such as Data Historians, the CMMS and many more. This means that personnel must manually record data from other IT systems. Not having seamless access to this information can have a serious impact on efficiency, production and safety.

No audit trail

Spreadsheet logbooks lack crucial audit trails, which means that there is no formalized control over who is making edits. There is no immediate way to keep track of who is creating or overriding entries, making it difficult to trace issues back. This lack of clear accountability could potentially lead to risky litigation.

Inconsistent event logging

With spreadsheet logbooks, there is no pre-defined entry structure, which can cause confusion. Inconsistent data entries become the norm, leading to inefficient reporting. Spreadsheet cells make it tedious to enforce layout, categorization and hierarchy rules.

Limited attachment capabilities

Using spreadsheet logbooks means that logging additional information becomes a chore. Photographs, reports and other data can't be attached readily to spreadsheet logbooks, meaning that these have to be stored separately. Attachments being lost due to accidental file erasing or having saved them in the wrong folder becomes a painful reality.

48% of spreadsheet logbook users rely on personnel to find key shift information.

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Considering all the problems arising from the use of spreadsheet logbooks, it is a key requirement of every industrial site to digitally transform this crucial aspect of day-to-day operations.

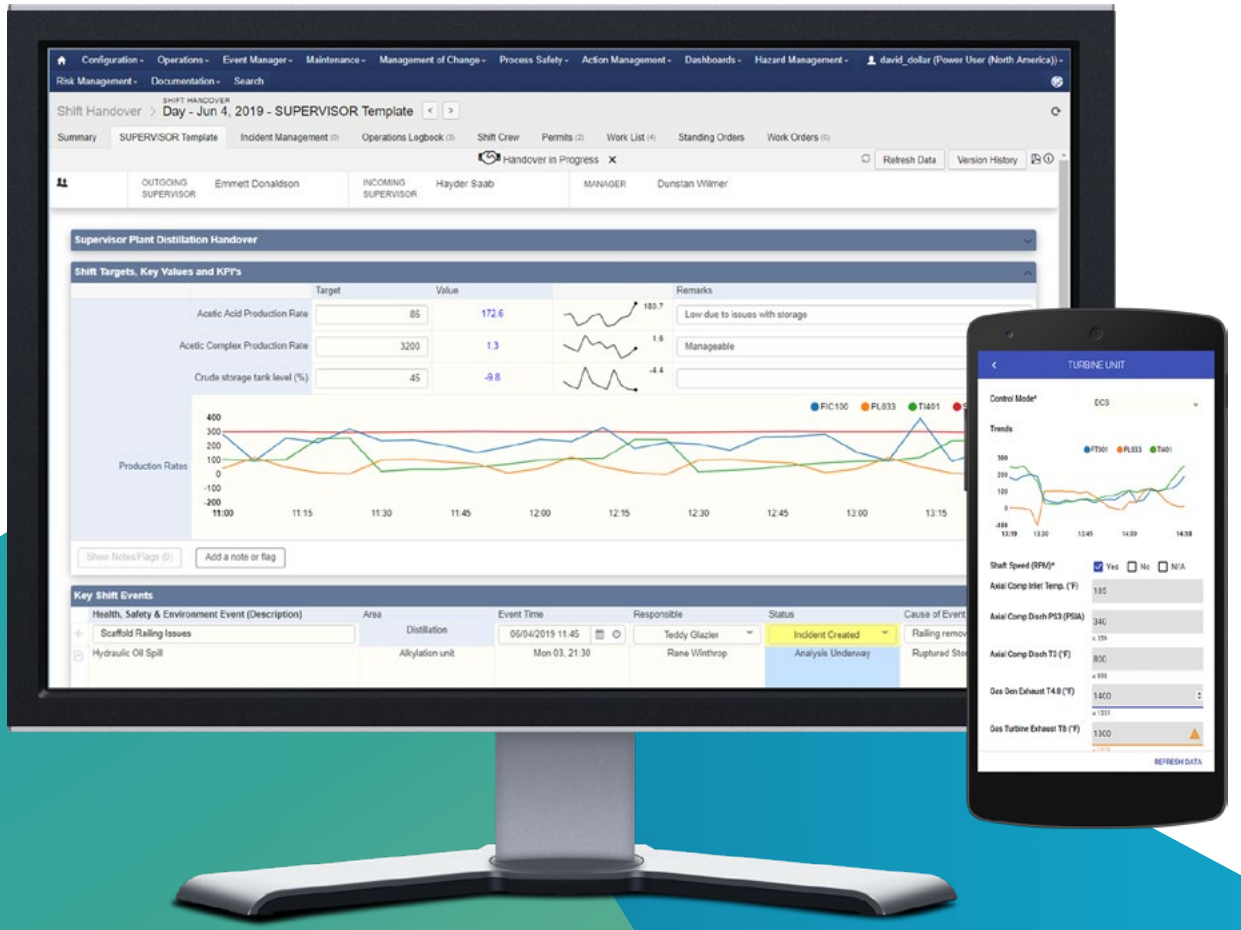
j5 Operations Logbook

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

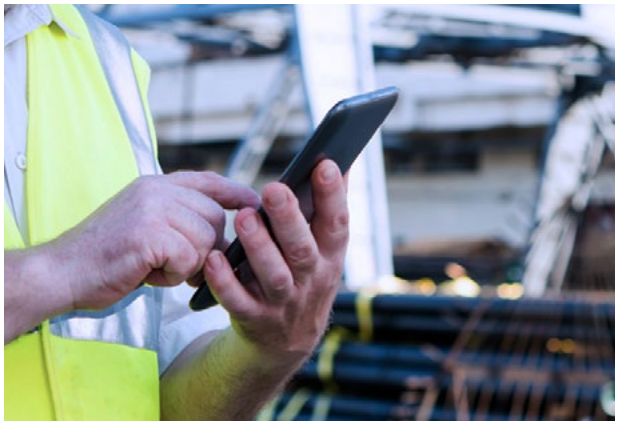
The j5 Operations Logbook application is used by many large multinational organizations to record, manage and view any event in a consistent and efficient way with a web browser and mobile devices.

The j5 Operations Logbook provides immediate benefits to operations personnel and other departments, such as maintenance and safety. A digital logbook can, in fact, grow into a powerful communications tool across multiple disciplines and sites.

> **With j5 Operations Management Software, I've finally found the solution I needed to take my business to the next level. Our goal is to implement as much of our daily activities as we can into this system. From our inspection records to manufacture alerts and bulletins, we see j5 Operations Management Software as the ultimate solution for tracking our day to day activities."**
>
> **Michael Fry**
> President and CEO, Deepwater Subsea LLC


Configuration
Operations
Event Manager
Maintenance
Management of Change
Process Safety
Action Management
Dashboards
Hazard Management
david_dollar (Power User (North America))
Risk Management
Documentation
Search
Shift Handover
SHIFT HANDOVER
Day - Jun 4, 2019 - SUPERVISOR Template
Summary
SUPERVISOR Template
Incident Management (0)
Operations Logbook (3)
Shift Crew
Permits (2)
Work List (4)
Standing Orders
Work Orders (0)
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
Low due to issues with storage
Acetic Complex Production Rate
3200
1.3
Manageable
Crude storage tank level (%)
45
-9.8
Production Rates
FIC100
PL033
TI401
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
Hydraulic Oil Spill
Alkylation unit
Mon 03, 21:30
Rane Winthrop
Analysis Underway
TURBINE UNIT
Control Mode*
DCS
Trends
Shaft Speed (RPM)*
Yes
No
N/A
Axial Comp Inlet Temp. (°F)
Axial Comp Disch PS3 (PSIA)
Axial Comp Disch T3 (°F)
Gas Gen Exhaust T4.8 (°F)
1400
Gas Turbine Exhaust T5 (°F)
1300
REFRESH DATA

The following are just a handful of the key benefits reported by users of the j5 Operations Logbook



Full visibility

With the j5 Operations Logbook, information is no longer confined to the control room. It is, in fact, made available directly to everyone in the plant, including to authorized personnel other than the operations department.

Multi-user entry and access allow more people to contribute to the information-recording process — especially with mobile devices, providing an immediate boost in plant personnel coordination.

Immediate finding of data

Functionalities like single-click filters, Boolean buttons and search engines allow users of the j5 Operations Logbook to find information quickly. This saves an enormous amount of time compared to older data recording methods, such as using spreadsheets.

Crucially, operators don't have to navigate through filing cabinets and complex folder systems to find the information they need.

Interfacing to other plant systems

The j5 Operations Logbook can read and write data automatically from other systems such as the DCS, SCADA, the CMMS, Data Historians and LIMS. This provides operators with a single user interface for maintenance information, real-time data and many other useful information sources. The j5 Operations Logbook also interfaces with the OSIsoft® PI System®, Wonderware by AVEVA, Aspen InfoPlus.21® (IP.21), SAP PM, SAP HR and IBM Maximo.

Formalized and auditable procedures

The j5 Operations Logbook provides efficient, repeatable, auditable recording for multiple areas and sites. The underlying logic ensures that users follow defined procedures. The j5 Operations Logbook automatically collects the bulk of the information for the shift handover, and reports may be emailed to an unlimited number of interested recipients. Data is always online and can be queried at any stage.

> **j5 Shift Operations Management has given greater visibility of ongoing issues and given us a consistent and accountable handover tool."**
>
> **Ant Tyler**
> Systems Operations Compliance Manager, Thames Water


Section 1 Permit Instructions and Base Information
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Submitted
Permit Title
Permit No
Weld Header section where leak detected
Preparer
HPI14
Recipient
Admin User
Type
Adriaan Ewout
Status
Hot Work
Priority
Open
Create Time
Medium
Equipment
Tue 8, 3:22 PM
Isolation Plan
12-TK-101
Diving Plan
Confined Space Entry
Safety Review
Job Safety
Gas Tests
Isolations
REVISE

Excellent flexibility

The j5 Operations Logbook allows users to attach items with a couple of clicks or directly from a camera, increasing productivity and saving sore fingers. Users can also attach photographs, videos and notes to entries on a mobile device with j5 Mobility. Furthermore, the j5 IndustraForm Templates capability to transform troublesome spreadsheets into enterprise-level applications brings the flexibility of the system to another level.

Event logging compliance

Information within the j5 Operations Logbook is easy to read, highlights "out of specification" entries and is color-coded and formatted. Additionally, the j5 Operations Logbook guarantees that critical fields are completed, checks spelling and eliminates double data-entry. This means that users can quickly locate information of interest and understand it without having to decipher inconsistent scrawls.

> **"The introduction of j5 Operations Management Software at INPEX helped improve and enhance operation management efficiency. The platform has contributed to the efficient and stable operation of INPEX assets. Information is standardized, accurate and easier to retrieve."**
>
> **Jinsei Li**
> General Manager, Information Management & Technology Unit, INPEX

HEXAGON

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.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 21,000 employees in 50 countries and net sales of approximately 3.9bn EUR. Learn more at hexagon.com and follow us @HexagonAB.