j5 Control of Work: Mining

Is your mining operation still using paper, spreadsheets or word processor documents to manage and record safety-critical control of work information?

The Industry Challenge

According to the **Health and Safety Executive (HSE)**, when using permit to work systems to safely control work, major hazards could arise from the following:

- **Wrong type of work permit used**

- **Wrong information about work required in the work permit**

- **Failure to recognise the hazards where work is carried out** – e.g. flammable substances

- **Introduction of ignition source in controlled flameproof area** – e.g. welding, non-spark-proof tools or non-intrinsically safe equipment used in intrinsically safe zones

- **Terms of work permit not adhered to** – e.g. failure to isolate mine areas and / or drain lines of hazardous substances

- **Failure to hand-over mine in safe condition on completion of work / cancelling of work permit**

- **Unauthorized staff performing work permit functions**

- **Poor management of the work permit system**

- **Insufficient monitoring of the work permit system**

j5 Control of Work

The Solution

The digital j5 Control of Work solution is designed to reduce operational risk and help ensure that the:

Right type of work permit is used
Using strict approvals and workflows

Right information about required work is on the permit
Using required data fields, clear digital entries and collating key information from relevant information sources

Hazards are recognised where work is carried out
Comprehensive advice and information is accessible on a mobile device at each workflow step

Introduction of mobile devices to manage and record Control of Work procedures does not increase the risk of an ignition source in a controlled flameproof area
j5 Mobility can be used on intrinsically safe mobile devices

Terms of work permit are adhered to
Using strict approvals and workflows

Plant is handed over in safe condition on completion of work / cancelling of work permit
Each step of every procedure recorded using j5 Control of Work is transparent and j5 Shift Handover can be used to communicate the status of all open, closed and cancelled permits between the outgoing and incoming shift workers and contractors

Staff performing work permit functions are authorized
Enforces a process of worker identification and required signatures before and after each work function

Work permit system is managed effectively
Provides quick information access to the relevant personnel and allows for consistent procedures which can be configured by authorized personnel as requirements change

Effective monitoring of the work permit system
j5 Dashboards, Reports and Views enable effective monitoring and assists in managing and scheduling permits across the enterprise

Get the Benefits of j5 Control of Work

Reduce Operational Risk, Digitalize Operations and Meet Compliance

Introduce Enterprise Scalability to Your Operations

j5 Control of Work is powered by patented j5 IndustraForm® Templates, which allow companies to transform paper, spreadsheets, word processor documents and scattered databases into enterprise-level applications quickly and with minimal disruption to operations.

Patented Spreadsheet-like Configurability

While j5 Control of Work is an enterprise-wide digital platform, the j5 IndustraForm Designer allows personnel to configure j5 Control of Work in a familiar, patented spreadsheet-like environment. This makes configuration easy and accessible to those who don't have programming skills, while also reducing expensive vendor change requests and reliance significantly, which lowers the cost of ownership.

Compatible with Mobile Devices

This configuration extends to mobile devices, where j5 IndustraForm Templates can also be used extensively, meaning that companies can develop mobile applications internally with minimal effort. This is significant with j5 Control of Work because it is important – according to the Health and Safety Executive (HSE) – to recognise hazards when and where work is carried out.

Tried and Trusted for Peace of Mind

j5 Control of Work is not an underdeveloped add-on; it is part of a solid digital platform solution that has been designed to continually improve with minimal disruption and to futureproof your control of work processes. j5 Operations Management Solutions is a consistent, upgradable digital platform where site configuration is modular to allow for relatively effortless upgrades.

Increased Efficiency and Time Savings

As all j5 Operations Management Solutions elements exist on the same desktop and mobile framework, upgrading multiple j5 IndustraForm Templates is stable and hassle-free. This simple upgrade process also saves time and financial costs, allowing customers to allocate more resources towards the safe operation of their plants.

Configuration Benefits of j5 Control of Work

- Extremely easy to add new fields with multiple configuration options

- Start with templated, fully configurable workflows, or design your own workflows from scratch (these templated intuitive workflows have configurable approvals, gates, notifications and states)

- Ability to test layouts in the j5 IndustraForm Designer and publish in real-time with no disruption to application or data, reducing the cost of testing for configuration changes

- Simple to change the layout of j5 Control of Work modules on desktop and mobile

- User roles and permissions can be strict or flexible, whatever is required for each scenario

- Dynamic user experience designed to promote ease of adoption, for example text or background colors that change depending on field values

- Multiple visualization options, such as calendar views, dashboards, Gantt charts and plot plans

- Enterprise-wide digital platform with patented spreadsheet-like configuration

- Seamless links to external data sources and other industrial applications like data historians and the CMMS

- Seamless integration between j5 Control of Work modules and other j5 Operations Management Solutions elements that enable users to provide a comprehensive end-to-end solution landscape

- Interact with 3D models, laser scans and P&ID Diagrams (requires j5 Connector for HxGN SDx®)

- Integrates with many Hexagon products, such as HxGN SDx, Smart® P&ID and others

Easy to Upgrade Without Disruption

- Robust version control

- Upgrade without shutdown (and plant disruptions)

- Hassle-free roll-back and roll-forward capabilities

- New versions of j5 Control of Work modules and other j5 IndustraForm Templates can be fully tested before going live

> **j5 Operations Management Solutions offers the advantage of having a proven industrial solution whilst having the option to provide any complementary module that you would need for a specific requirement."**
>
> **Laurent Hardy**
> Operations Manager, European Synchrotron Radiation Foundation (ESRF)

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.

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 3.8bn EUR. Learn more at hexagon.com and follow us @HexagonAB.