



NEWSLETTER

THE BEST-RUN E-BUSINESSES RUN SAP



Edition 1/2002

Work Clearance Management Newsletter

Dear Readers,

Welcome to the first Work Clearance Management Newsletter.

We intend to use this newsletter in future to inform you of all the interesting new developments in Work Clearance Management. As well as news from the development team, the newsletter will include reports from customers, information on forthcoming events, and training dates. The newsletter will be published quarterly.

We would be delighted to receive your feedback on this newsletter. Let us know what information about Work Clearance Management would you be interested in reading about, so that we can include it in future issues.

We hope you enjoy reading this newsletter,

Yours sincerely,

Uwe Kirchner

Michael Lesk

Christoph Wobbe

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Top Story

Korea Hydro & Nuclear Power Co. (KHNP) to go Live with WCM

Korea is the world's 6th largest nuclear energy producer, and depends on it for some 40 percent of its energy supply. Behind the strength of Korea's nuclear energy sector is [Korea Hydro & Nuclear Power Co. \(KHNP\)](#), a subsidiary of Korea Electric Power Corp (KEPCO).

Since the privatization and division of KEPCO's power generation sector into six major units in 2001, Korea's energy suppliers, which have been operated as state-owned enterprises during the past decades, are now riding a wave of globalization and limitless competition. To keep pace with market transition, Korea Hydro & Nuclear Power Co. (KHNP) has decided to implement SAP R/3 Enterprise Resource Planning (ERP) to

increase its competency in the emerging capital market.

KPMG Consortium acted as the IT consultant on the SAP R/3 implementation in the KHNP reengineering project. SAP R/3, which includes modules to manage plant maintenance, construction, finance, accounting, and material management, will be the largest system of its kind to be used by a utility company in Korea.

KHNP plans to use the SAP Plant Maintenance module to adopt international best practices for information systems and work processes. In addition to the standard SAP functions, WCM processes will be implemented, enabling the automatic issue of tags, providing increased control on safety measures.

As lockout/tagout is a crucial part of maintenance work in KHNP, they have decided to adopt the standard model (Order, WCA, WCD) for WCM. KHNP has created a WCD template based on an isolation sheet. In the near future, they also plan to assign WCM directly to particular task lists or equipment, so that the system can automatically recognize the orders that contain the WCM object.

SAP R/3 Enterprise Resource Planning (ERP) will be going live in February 2002.

About KHNP

Korea Hydro & Nuclear Power Co – the sole provider of nuclear energy in Korea – with 6,151 employees (including 330 in the hydropower segment), holds 19 trillion won in total assets. Currently, 16 NPP Units are in operation in three provinces (South Gyeongsang Province, North Gyeongsang Province and South Jeolla Province). In line with the nuclear power development plan, four additional nuclear units, comprising four KHNP's Unjin Units 5 & 6 and Yeonggwang Units 5 & 6, are under construction and slated for completion by 2005.

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New Functionality

Business Need

All isolations are checked and approved by a person that had no input into the initial document (WCD). Some of the isolation sheets are large, so to reduce the chance of error they are checked against the standard isolation (WCD template) to which they were created with reference. At present this cannot be achieved easily, as the reference document is not a standard field in the document record.

Another requirement is "full" audit ability. If a WCD is created with reference to a WCD template and then altered, it should be easy to check this fact. This is especially critical in the event of an accident where standard procedures would then need to be reassessed. A further requirement is the ability to quickly determine outstanding/pending isolations that were created with reference to a WCD template. If a standard isolation is altered, it should be an easy task to determine any outstanding isolations that were created with reference to this document. This is important in the case of an isolation prepared in advance for shutdowns.

Example

An accident occurred during regular maintenance and it was determined that the isolation procedure was at fault. The safety officer wants to review the isolation template to determine if the actual WCD was different. It is deemed that the WCD matches the WCD template and that the template requires alteration. As a shutdown is approaching, the safety officer wishes to determine if any WCDs for the shutdown have been created from the faulty template so that they can be altered to the new format.

Solution

From SAP R/3 Enterprise PLM Extension 1.10, the construction of a WCD library will be better supported. If you use a template to create a WCD, the system notes the WCD that serves as a template. This has the following advantages:

- You can easily determine the differences between a WCD and your template.
- If you make subsequent changes in the template, these will be taken into consideration if you perform a list comparison.
- You can navigate directly from the WCD to the template.

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Forthcoming Events/Training Courses

[4th International SAP Utilities Conference](#)

Date: December 4 – 6, 2002

Location: Leipzig (Germany)

[Course LO820 WCM](#) (German)

Date: December 2 – 4, 2002

Location: Walldorf (Germany)

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