niSoft™

eR&I Digital Rounds & Inspections

Stay Safe - Save Time - Support Compliance

A highly configurable system adaptable to customer operational requirements.

EAM / CMMS Integration

Desktop & Mobile App

Rounds and Inspections are a major component of the regular tasks executed by Operation and Maintenance at Industrial facilities. They are either performed to check and evaluate the reliability aspects of a system/asset or for compliance reasons and their effectiveness relies on what is done with the data collected.

With the increased emphasis on Asset Performance Management (APM), companies have looked at ways to more efficiently gather data and process results. Even the more advanced facilities still largely need Operations and Maintenance personnel to manually collect data on plant.

eR&I, the NiSoft Digital Rounds, Inspection, Checklists & Audit System, an integrated part of our *eclipseSuite* that digitises the gathering of critical operational data as well as the analysis of such data.

eR&I, can be integrated with APM and data historian to act as a repository for all operational data recorded during rounds and inspections.

- ✓ **Powerful configuration toolset to tailor eR&I to your site-specific rounds and inspections requirements.**

- ✓ **Central repository for all collected critical plant operational data with minimum change management required.**

- ✓ **Complementary integrated solution to existing SCADA or DCS instrumentation system.**

- ✓ **Mobile ready APP with a wide range of data collection technics such as picture, video or sound.**

- ✓ **Use a system of workflow and logic to evaluate data collection conditions or perform data point calculations.**

- ✓ **Connected or offline solution to facilitate manual data collection.**

eR&I

Digital Rounds, Inspections, Checklists & Audits

- Enhance accuracy and consistency of data collection in a digital, easy to use, flexible Rounds & Inspection solution.

- Improve safety by notifying personnel of potential issues due to out of range values while performing rounds, inspections, checklists and audits.

- Enhance productivity by providing operations personnel more accurate data to make better decisions anywhere in the plant/facility.

- Increase visibility by providing a quick and easy communication methods in near real time basis.

- Reduce human error and data duplication by using mobile technology and robust workflow to capture data including barcodes, photographs, video and other important data formats.

- Enhance data correctness and equipment condition visibility using additional recording technics such as picture, video or sounds.

- Support compliance by providing audit capabilities to ensure that required rounds and inspections have been accurately performed at the correct time.

- Increase process effectiveness by automatically sending formatted information to specific logbooks and personnel.

NiSoft (eR&I main functionality includes:

Configuration and Setup of the Rounds and Inspections module by defining -
For each round, inspection, checklist and audit:
- General information such as name, description, frequency, data type and workflow
- Identify the data points to be recorded, the appropriate values, format and data validation rules

For each data point:
- General information to be tracked such as description, equipment, values etc.
- Limits (max/min), user alerts for out of range items
- Prepopulated List of values to be used when recording information
- Reference attachments to be used during execution of the round
- Logbook automatic entry rules to be used during upload of the round or inspection
- Applicability or conditions under which the points should be recorded
- Data validation/workflow for data values and the performance of the round/inspection
- Options such as bar code or RFID to help identify the correct data point location.

Execution of the Rounds & Inspections on the mobile device by -
- Only qualified personnel to perform the round or inspection.
- Downloading one or multiple rounds and inspections onto the same mobile device.
- Providing flexible ways to record the data; sequentially, by location, by using bar code or RFID scanning.
- Date and time stamp for each data point recorded for auditing.
- Alerting the user of any abnormal conditions or warnings while recording the data.
- Add notes or comments to any data points.
- Allowing the user to review the round and inspections for abnormal and/or missed readings before uploading back to main system

Trending and analysis of the data by -
- Filter capabilities such as out-of-limit data, mandatory data, missed data, data with comments, and data with attachment.
- Viewing current and historical data in a graphical or tabular format including limits and/or thresholds
- Comparing data points from multiple rounds or inspections including audit information
- Generating standard or customers' defined specific reports or dashboard.

Integration eR&I with *eclipseSuite* and external systems including -
- eRISK, eLOTO, ePTW, eDPT, eLOG
- Asset Reliability System and Data Historian
- Maintenance Management system
- 3rd Party Reporting Tools

To arrange a demonstration: email **info@nisoft.com** or visit us at **NiSoft.com**.

nisoft™

eclipseSUITE

An Expanding Suite of Tailored
Operations Management Software
Supporting Operational Excellence

Offices in UK, USA, Singapore and Australia.

ePROC
Procedures

eWP
Work
Package

eR&I
Rounds &
Inspections

eLOTO
Lockout-Tagout

eRISK
Risk Assessment

eLOG
Logbook

ePTW
Permit-to-Work

eDPT
Document Process
Tracking