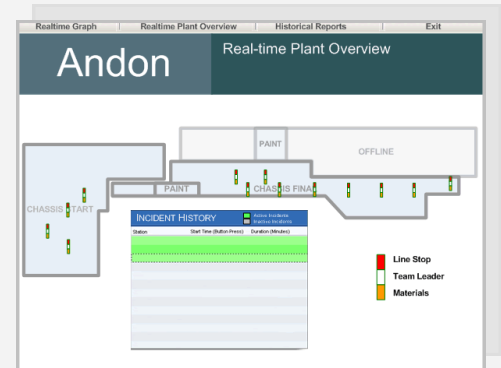


Production Alarming System (ANDON)

Overview

A Production Alarming System (Andon) highlights operators' requests for assistance using both visual and audible signals. The purpose of the Andon is to enhance work group communication so that quality defects are corrected within the station before it causes issues with subsequent operations, causes a major repair or gets to the customer.

The Andon system consists of operator switched devices that activate visual and audible alerts, standard workstation markings, and Fixed Position Line Stop (FPLS) controls. Status of team stations can be displayed on marquees, email, pagers, through use of the Middleware Suite. When the stack lights are activated, the operations team are instantly made aware of costly conditions occurring on the plant floor such as "materials low / out", "maintenance required" or a "supervisor request".

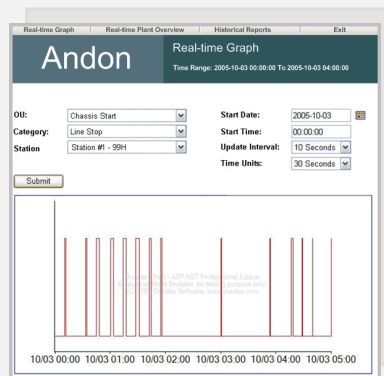


Key Benefits

- *Just-in-time (Jikoda) enabled allowing, "automation with a human element."*
- *Error proofing (pokayoke) through historical record of machine or process states*
- *Real-time information that feeds the ERP system and paves the way to total process optimization*
- *Display machine status in real time from any computer monitor with an Internet connection*
- *Automatically notify key personnel of status changes*
- *Data is viewable via charts or bar graphs which can be exported to third-party analysis or reporting software*

At a Glance

- *Production problems are highlighted immediately, reducing lost time and the risk of late delivery*
- *Historical production data can be interrogated to help identify underlying issues and hence giving ability to rapidly identify fixes*



The Andon system will pay for itself in a matter of months or weeks by:

- Informing the right people of critical issues immediately allowing production to re-sume.
- Giving managers the tools to perform precise, downtime analyses of manufacturing cells or stand-alone processes that are needlessly obstructing efficient production.

Why IES Group?

With a over a decade of experience and many credible customers across North America, IES is uniquely positioned to help manufacturing companies achieve excellence in production efficiency. Our experience has given us significant expertise in manufacturing optimization, management and consulting.

IES GROUP