ICAM-PTO

WORK MANAGEMENT

Visibility and control are the key elements in moving your engineering organization from operation by exception to operating to plan.

To achieve maximum control with a minimum supervisory effort, ICAM-PTO employs a centralized design concept – Work Management being the hub of the system. Key managers and supervisors can easily receive real time information on all critical activities, measure this against a pre-defined plan and take quick and decisive action if required.

EQUIMENT MASTER

Equipment Master is the main data associated with an individual asset whether it be a crane – quay or yard, mobile equipment, generator or building. ICAM-PTO allows individual characteristics to be assigned to type of equipment supporting accurate:

- **Cost of Ownership**
    Annual (per TEU impact)
    Supplier comparison
    Life Cycle costing
    Repair/Replace decision support
    Warranty management
    Percentage of availability
    Mean time between failure

Task Master containing all of the standard reoccurring tasks and standard hours data required to ensure reliable operation from critical equipment. Creating standard job tasks allows you to copy across similar equipment eliminating mistakes and double entry. The task master is simple, easy to maintain and will allow you to get up and running quickly

RESOURCE MASTER

Resource Master contains all of the skilled labor resources available to your organization both internal and external (contractors) sources. This information is matched against the task master to achieve maximum coverage without chronic reliance on overtime. Projected and actual utilization allow for tight scheduling requirements Additional functions include;

- Burden rate for true labor costs
- Shift premium calculations
- Master holiday scheduler
- Individual off-time calendar
- Individual effectiveness
- Individual material usage
- Labor balancing and modeling

Contractors are closely monitored to assure compliance to job estimates including stock and non-stock material consumption.

SCHEDULING MASTER

Scheduling requirements for port services operators are very unique, unlike anything faced in a manufacturing environment. Tight opportunity windows are the norm, while equipment is constantly placed under extreme stress and it is a simple fact that physically large equipment requires more man effort to service. These factors were given foremost consideration during ICAM-PTO's design resulting in a scheduling methodology that matches the Engineering Department's unique scheduling requirements.

Periodic inspections and PM's are the most common types of repetitive work and offer some significant advantages. A sound PM program maximizes controlled pre-planning, optimizes project insertion and reduces repetitive research effort. Simply, it is the easiest engineering that allows for the forecasting on manpower and material. Release of work may be based on:

- Calendar (elapsed time)
- Run hours
- Number of lifts/cycles
- Seasonal

- Any combination of above

Tasks are prioritized by criticality and duration, non critical tasks are automatically scheduled into the next time window.

Projects and corrective maintenance are the most common types of non-repetitive tasks and historically the most difficult to schedule

ICAM-PTO's **Project Orders** allows pre-planned tasks and materials to be entered for any number of internal or contractor sources. Workload analysis can be performed to achieve project balance. An electronic approval system allows for review and, on approval, issues the orders to the parties in the correct sequence.

All **Corrective Maintenance** types (emergency, routine, safety) are supported. Any number of additional classes required can be quickly incorporated. Pre-defined engineering task lists can be created exceptional occurrences such as;

- Lightning strike
- Wind shear
- Hung load

Predictive Maintenance is supported based on any element that can be measured (temperature, pressure, voltage, etc.). The amount of advanced notification required are entered and, when deterioration is detected, I-CAM a corrective order is issued before failure occurs.

Operational Support

The Work Management Module is completed with a full set of operational support features covering security, report generators and analysis. These inquiry and administrative functions are presented in an easy to use format requiring minimal clerical effort