



SMART PROCESS CONTROL SYSTEM | DoD CFD

The Smart Process Control System is an automated system designed to provide operational monitoring, supervisory control and data acquisition of Navy food service equipment. The system was developed by leveraging existing commercial technologies available in food service automation. Smart Process Control will minimize the amount of labor required to prepare food products and perform management functions, which will lead to greater efficiencies in meal production processes, and minimized maintenance requirements.

PURPOSE:

The Smart Process Control System provides asset visibility and a streamlined approach to food service equipment automation in the galley. Operators can quickly web-enable equipment, allowing for greatly enhanced food quality, safety, production, equipment asset management, and operations monitoring and control.

TECHNOLOGY:

Food service equipment is embedded with smart hardware modules and linked to a gateway network to provide an online management, Internet-based communication system. This system enables galley operators to monitor and manage their food service equipment and operations both locally and remotely, by: collecting equipment performance data, configuring shipboard recipes, uploading diagnostics and prognostics information, and establishing requirements for initiating condition-based maintenance schedules for remote access and query of equipment.

CAPABILITY & BENEFITS:

- Enhanced utilization of equipment assets
- Optimized performance and reliability of equipment
- Improved crew productivity and labor efficiency
- Reduced costs associated with periodic maintenance
- Reduction of equipment downtime
- Replaces manual operations with automated food service techniques

APPLICATIONS:

Links to the future Navy galley systems and Air Force Base Expeditionary Air Readiness base camps to provide food service equipment asset monitoring, food safety, automatic alerting, and production management.

COMMENTS:

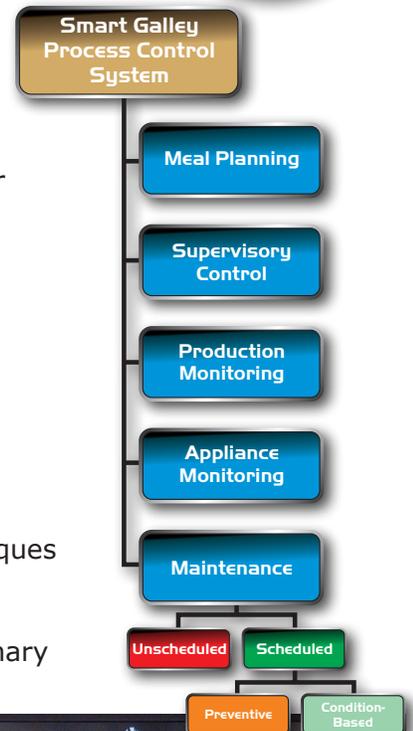
The Smart Process Control System transitions to the Future Navy Galley Project in FY08.

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