



# The Paperless Shop Floor

Improve product quality, reduce process variation, and remove paperwork while meeting FDA and GFSI standards. Drive down giveaway and get processes under control with mobile Quality Assurance checks, sophisticated Statistical Process Control and shop floor work management in real-time. Deploy mobile operational auditing including Safety and GMP to ensure that best practices are adhered to. Create consistency by establishing optimum production line settings with our Base Settings feature and monitor adherence through process deviations.



## Paperless Quality

Automate your entire quality process, remove paperwork and make audits hassle free. Baked-in capability to meet FDA and GFSI (BRC/SQF) requirements make the transition to paperless seamless. Free time up for the Quality and Operations team to analyze data, improve the quality process versus chasing paperwork and managing the status quo.

- Simple to use QA mobile data capture on iPads
- Auto scheduling checks by Line/ SKU/ type
- Automatic alerts – pass, warn, fail and missed checks
- Electronic signatures based on 21 CFR Part 11
- Real-time visibility and current status
- Link to devices such as scales
- Audit ready reports to pull history

## Audits and Checklists

Audits and Checklists provides a mobile way to control work methods and standards while, at the same time, providing continual education to users in real-time and removing paperwork.

Application examples include:

5S Audits, GMP Audits, Start-Up Checklists, Safety Audits and Changeover Checklists.

- Built-in Audit capabilities provides a 'score' that reflects a 'Pass / Fail' exercise
- Scores are monitored to assess performance and improvement
- Audits and Checklists are automatically launched with 'triggers' – either time based, run based or event based

## Statistical Process Control

Reduce variation and monitor product variables through the use of statistical models and rules.

- Simple to use QA mobile data capture on iPads
- Deliver histograms and Pareto's, real-time charts such as Xbar and R, P, Np, C
- Statistical indices such as Cp, Cpk, Ppk
- Use Redzone's SPC engine to calculate control limits using SKU characteristic standard deviations and apply standard SPC models for control such as Western Electric
- Reporting capability includes production summaries, certificate of analysis, performance against specifications, statistical summaries and costs of process changes

## Base Settings

Provide a deviation process to manage exceptions and allow the team to refine their standard settings over time. Harness and share the knowledge of your shop floor experts' best practices by standardizing base settings and monitoring adherence. Use online Job Aids to help operators perform their jobs correctly in a repeatable manner.

- Online setup for optimum line Base Settings
- Deviation workflows triggered when out of tolerance occurs
- Eliminate paper guides – use online Job Aids and 'One Point Lessons'
- Job Aids applications include labeling formats, date coding and pallet configuration



# Deployment through a 90 Day Service Pack



## Quality Assurance and SPC

The Quality Assurance and SPC Service Pack will transition an organization to a paperless, real-time quality management environment during the 90-day cycle. This maintains a focus on 'coaching-in'; interim burn down calls and senior management steering that our customers are already familiar with. Key stages of the roll out are:

- Analysis of current QA process
- Introduction of mobile and media to checks
- Data importing and mapping
- Go Live
- Installation Qualification and Operational Qualification
- Audit burn down to paperless
- Training and education on SPC and how to apply
- SPC focused Kaizen to tackle a 'giveaway' opportunity
- Assistance with the roll out of additional checks

## Base Settings

Over the 90-day deployment the organization, with the help of the Redzone coach, will establish optimum Base Settings across the plant. Base Settings are dependent upon the product, location and assets involved. The Redzone coach will deploy audits to gather the relevant data and discuss what base settings to apply and then how to expand the scope over time. These audits create the prescriptive set points that will be the starting point for the plant team to start experiencing the discipline of using base settings. Base Settings are deployed along with a 'deviation workflow' in order to establish discipline around machine settings. During the service pack deployment Job Aids will be linked to locations, assets and products so that Redzone can provide a filtered view based on what is being produced at that time providing easier access for operators.

## Workplace Compliance

The Workplace Compliance Service Pack helps ensure Operational Compliance across production areas and teams. Audits in the workplace are used to ensure activities are executed based on agreed policies and procedures. As part of the Audits and Checklists go live process, all existing, paper-based standard work is reviewed. Once dissected, an improved electronic process will be created. Appropriate 'alert' triggers will be developed to support each audit or checklist and is based upon the requirements of the process. The 'coached-in' approach will mean that teams are gently guided on the basic rules and best practices associated with Audits and Checklists so that they can continue to extend the Workplace Compliance reach within the plant after their Redzone coach is no longer on site.



"Compliance was a game changer for both our Quality and Production teams. Communication and teamwork has improved between the two departments because they understand each other better now. There is much less of an us versus them mentality because the increased clarity and immediate feedback has allowed us to fix problems on the fly rather than after the fact."

**Claire Palmer-Luttrell - Projects Manager,  
Palmer Candy Company**



"Redzone compliance instills a continuous improvement mindset into all levels of our operation. It has given us the capability to react in real-time to various situations on the production floor. It helps support our cultural values by driving ownership, accountability, and providing a seamless communication avenue for management support."

**Chris Duncan - Director of Continuous Improvement,  
Land O'Frost**



"The Number one thing the Redzone quality module does is save everyone time. It has sped record keeping up - no more photocopying wet pieces of paper or searching for lost forms or going back to fill in missed checks... because the quality department saves time they CAN now focus on productivity improvements."

**Doug Kutella - Director of Manufacturing,  
Pacific Foods**