



Sustaining Quality .:

Why is Quality Good for Business?



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The Goal: "Good for Business"

- Some Indicators of "Good Business"
 - Customer Satisfaction
 - Top Line Growth
 - Bottom Line Growth
 - Speed to Market for New Products
 - Employee Retention





The Quality Strategy for Good Business

- Senior Management Involvement
- Competency & Governance
- Quality "Systems" Thinking
- Quality Improvement Model/ Framework
- Culture of Commitment to Continuous Improvement



The Quality Strategy... Senior Management Involvement

- Continuous improvement must be driven from the top
- Senior Management must be vocal, visible & involved in the change process
 - Timelines
 - Deliverables
 - Accountabilities
 - Competencies
 - Behaviors
- Active participation in Leadership and Governance processes



The Quality Strategy... Competency & Governance

- Competency know how to do things right
 - Problem Solving/ Root Cause Analysis
 - Validation
 - Training
 - Continuous Improvement Tools
 - Cross-functional Teams
 - Project Management
- Governance do the right things
 - Quality Councils
 - Steering Committees



The Quality Strategy... Quality Thinking

A Quality System is...

- Set of interrelated processes that working together, assure product safety, strength, identity, purity and quality
 - Elements that prevent, detect & correct deficiencies in the normal process
 - Systems depend, interrelate, input/output
 - Together provide for predictable and consistent performance and responses to adverse situations or changes

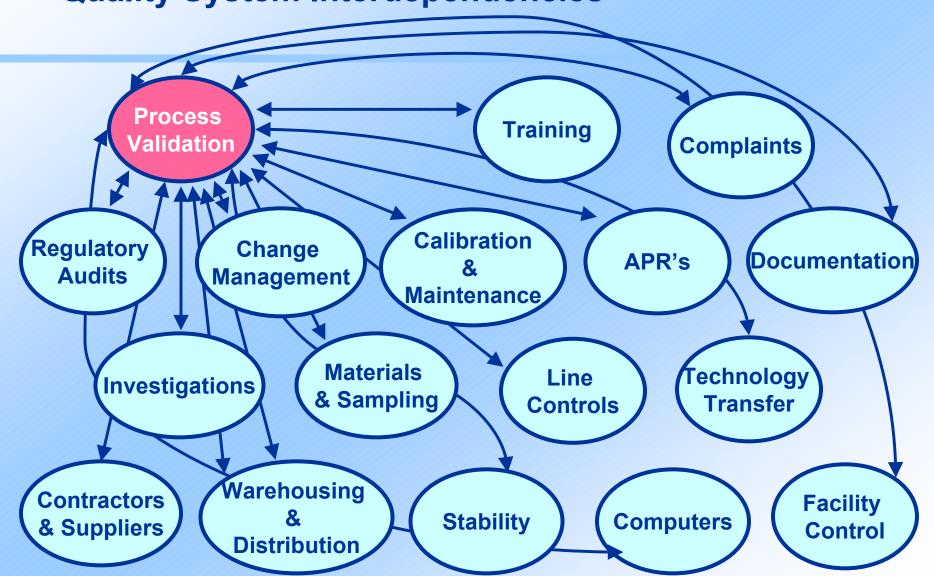


Some Quality Systems

| Prevention | Detection | Correction |
|--|----------------------|---------------------------|
| Documentation ———————————————————————————————————— | | |
| Training | Regulatory Audits | Training |
| Calibration & Maintenance | Complaints | Calibration & Maintenance |
| Technology Transfer | Stability | Investigations/CAPA |
| Process Validation | Materials & Sampling | |
| Change Management | APR's | |
| Warehousing & Distribution | | |
| Line Controls | | |
| Contractors & Suppliers | | |
| Facility Control | | |
| Computers | | |



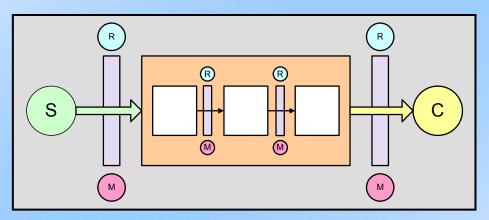
Quality System Interdependencies





The Quality Strategy... Quality Improvement Model/ Framework

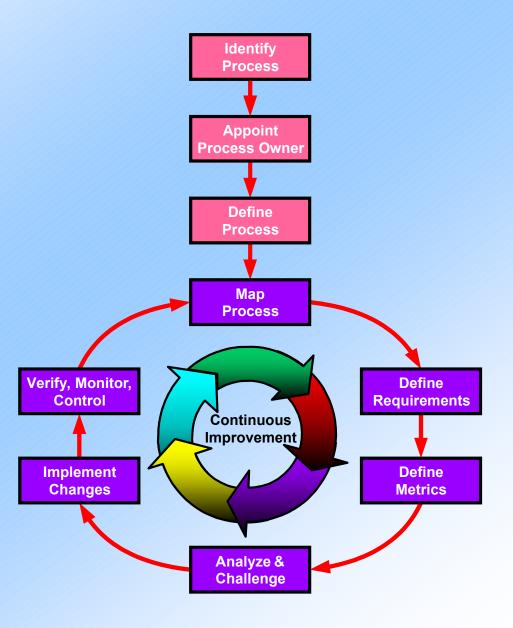
♦ ALL WORK IS A PROCESS ... and must be made visible



- PROCESS is turning inputs from Suppliers into outputs for Customers
- REQUIREMENTS must be clearly defined
- MEASUREMENTS indicate if Requirements are met
- OWNERSHIP to assure continuous improvement



QSIP Quality **Systems Improvement Process**





7 Attributes of Robust Quality Systems

- Process
- Procedures
- Documentation
- QA Role
- Organization
- Infrastructure
- Performance Metrics

Fundamental to sound and robust Quality Systems





- Performance Metrics
 - Deviations
 - Recurrence
 - CAPA
 - Training
 - Customer Complaints
 - Change Control
 - Stability Study outcomes
 - Equipment Calibration/PM
 - Annual Product Reviews

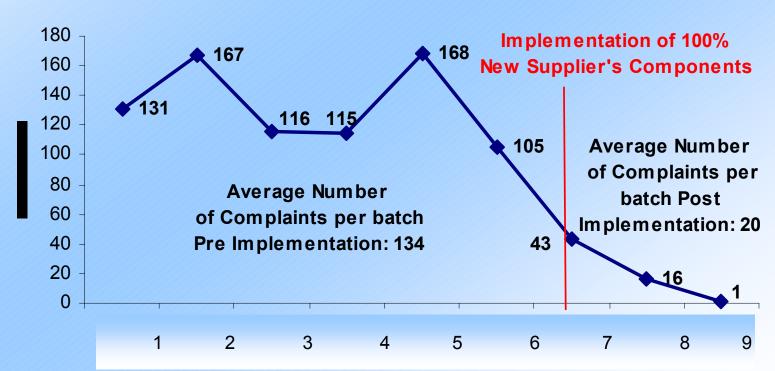
These
Measurements
tell us





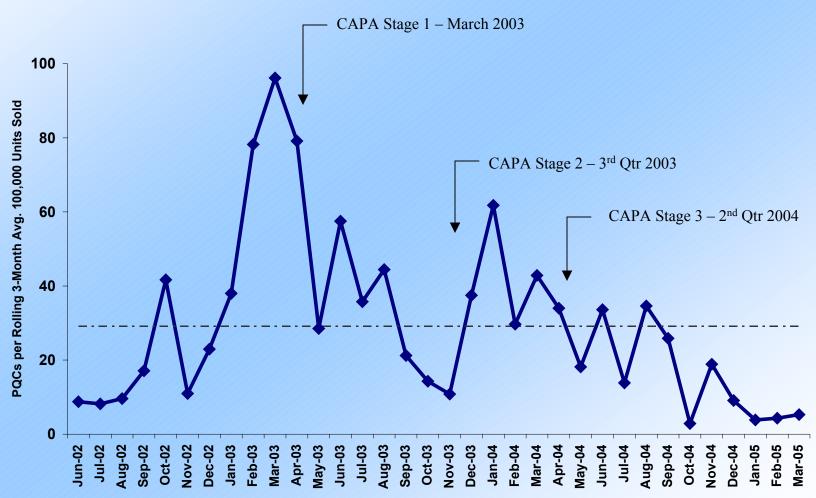
Illustrates the effectiveness of performing root cause analysis and taking appropriate action. Root cause was isolated to a specific component supplier...Corrective Action was to single source with the higher quality supplier. Result was a reduction in complaint activity from 134 per batch to 20 per batch (non-related issues).

Product XYZ CAPA Effectiveness Chart



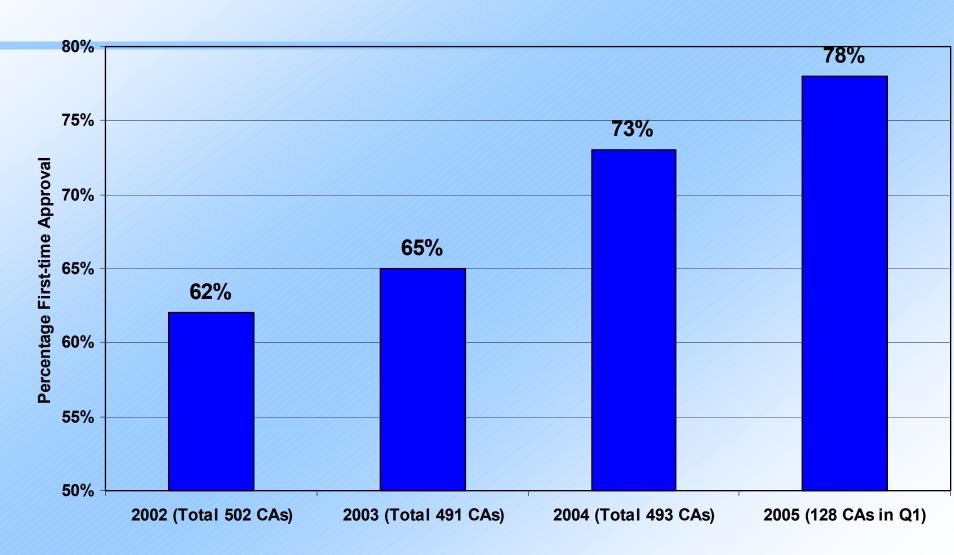


Product Quality Complaints Normalized

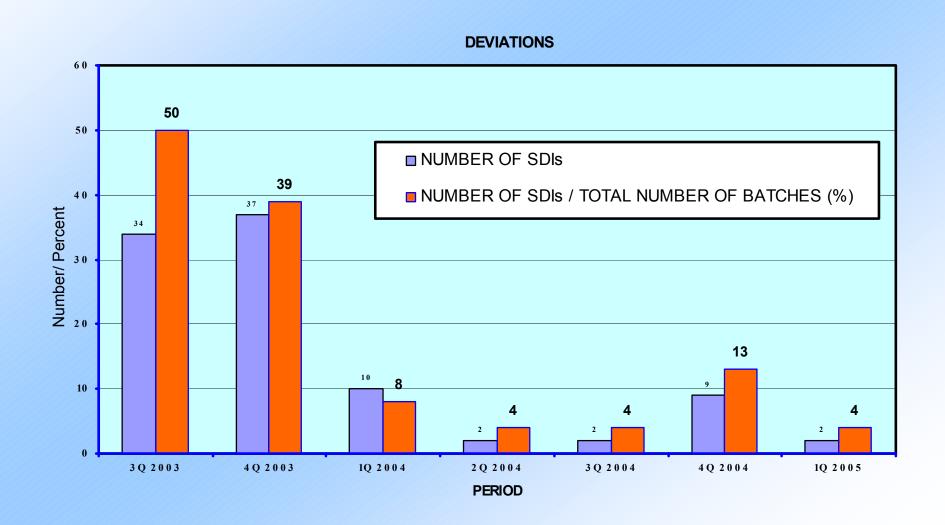




First-time Approval Rate Change Authorizations Approved 2002 thru Q1-2005









Quality Systems ... Designed for Commitment

- Simple, easily understood
- Clear roles & responsibilities & governance/ownership
- Controls & checks that help responsible people do their jobs
- Reflect Company's Vision & Values
- Promote commitment



The Quality Strategy... Ladder of Commitment



Commitment - "I stand for this"

1

Support - "I will support the effort"



Compliance – "I will obey the Rules"



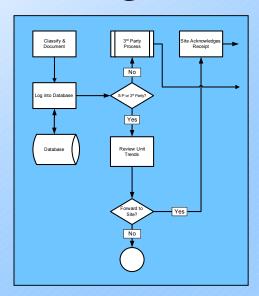
Grudging Compliance – "I will do if I must"



The Quality Strategy

Management Involvement

competency and Governance







Committed People

Well-designed Systems

Sustaining Quality is Good for Business



Sustaining Quality Systems... Good for Business

Effective and Efficient Quality Systems lead to:

Customer Satisfaction and Top Line Growth

Patients, Doctors

Regulators

- Contribute bottom line growth
 - Effective and efficient systems
 - Fewer process/ system failures
 - Less Regulatory risk
- Speed to Market for New Products
 - Regulatory approvals
 - Successful transfers
- Employee retention
 - Commitment to Continuous Improvement
 - Personal and professional growth

