

Process Analytical Technology

Implementation

unnell Consulting is responding to the FDA's vigorous ▲ interest in robust product and process reliability by implementing integrated PAT strategies that fully respond to regulators' demands. Our structured PAT approach includes five key elements: a focused vision and strategy, identification of critical process parameters, development of advanced on-line analytical technology, data integration, and essential organizational change.



Our Integrated PAT Strategy Reflects the Benchmark FDA View

66 It is important to note that the term analytical in PAT is viewed broadly to include chemical, physical, microbiological, mathematical, and risk analysis conducted in an integrated manner.

> - PAT Draft Guidance August 2003

Our PAT Strategy Delivers:

Identification of critical sources of variation

Reduced compliance risk

Improved management problem solving

Development of data-driven decision making

Creation of a continuous improvement culture

Tunnell Consulting will partner with you to facilitate a customized PAT solution that becomes a competitive advantage. Our integrated approach will enable you to do the following:





Create a compelling PAT vision that mobilizes and aligns your organization, and a strategic plan that integrates the critical goals of key functional groups.

DEFINE CRITICAL PROCESS PARAMETERS



Identify critical parameters that drive variation through the use of tools such as regression analysis, design of experiments (DOE), and capability analysis, and develop and implement variation reduction strategies.

IDENTIFY AND DEPLOY ANALYTICAL TECHNOLOGY



Define your data requirements, and develop and apply appropriate on-line, at-line, and in-line analytical technology.

CREATE A DATA MANAGEMENT INFRASTRUCTURE



Design a data collection, analysis and reporting strategy, and an information system framework, to maintain improvement gains and secure real-time response.

ENSURE ORGANIZATIONAL SUSTAINABILITY



Recognize that PAT will change organizational dynamics. Tunnell Consulting provides experts and tools to maximize and sustain the change.

Our Pharmaceutical Clients Include:

















About Tunnell Consulting

Tunnell Consulting integrates technical, process and organizational skills to boost the operating performance of manufacturing and service firms with a focus in the pharmaceutical industry. We implement value-added, cost-effective solutions that fit the unique needs of each client we serve.

