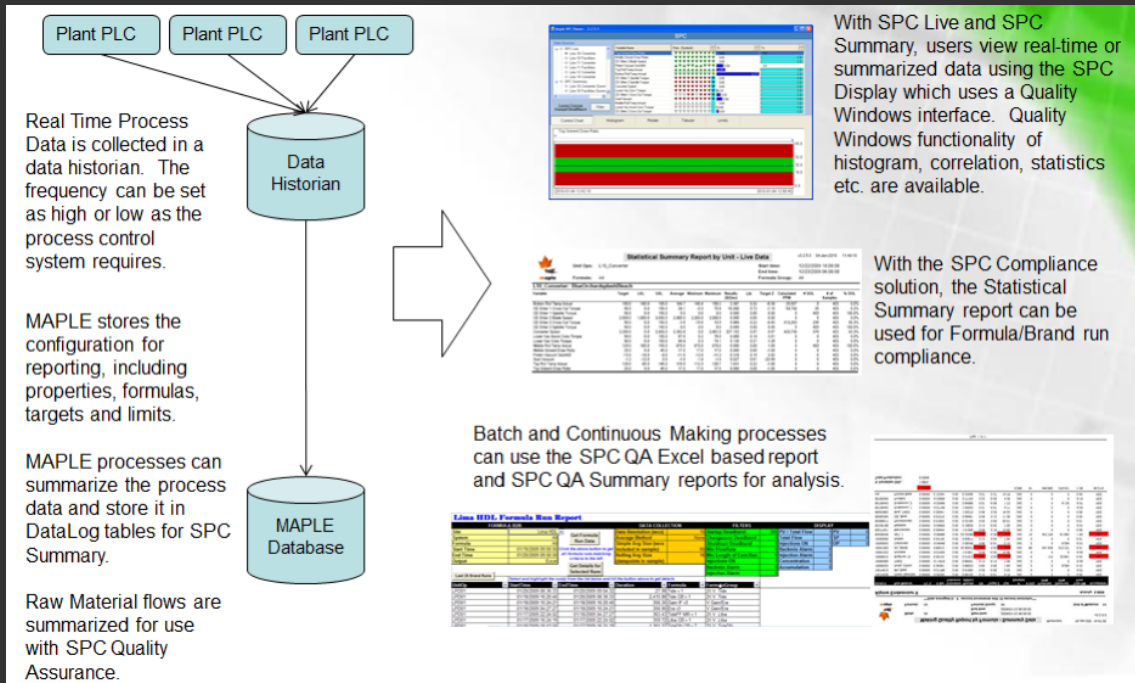


STATISTICAL PROCESS CONTROL



Monitor and Control Performance While Verifying Results

The MAPLE Statistical Process Control (SPC) module monitors variations in operational performance and product quality to determine root causes, correct problems, and verify results. SPC combines the sample data from historians, relational databases or other manual data sources with local target and specification data. Process control charts and statistical summaries help provide the information visually to operators and decision makers.

The SPC module is adaptable to both batch and continuous processes. Data can be captured and analyzed during the run or summarized at the end of the run for release criteria verification.

The SPC module enables continuous improvement through decision-making, process analysis, process streamlining, waste reduction, and quality control assessment.

STATISTICAL PROCESS CONTROL

Key Features

- Summarizes process and / or batch historian data at regular intervals or on demand. Data is viewable using the SPC Display using targets and limits stored in MAPLE.
- Provides a Statistical Process Control Summary report that combines configurable targets and limits from MAPLE and process data from the historian.
- The SPC module automatically generates SPC charts for all quality data collected in the Quality Module and provides real-time alarm generation if measured values break control limits or trend rules.
- Delivers SPC data in real-time to the right people in a comprehensive format using control charts and analysis tools.
- Targets and specifications are stored in MAPLE and may be imported automatically.
- Provides direct feed of historian process data to the SPC Display using targets and limits stored in MAPLE Suite.

Benefits

- Establishes overall “process health” across the plant by assessing and adjusting to current trends.
- Real time SPC means that operators can be flagged with problems from SPC rules or trends before scrap is produced.
- Tracks the impact of continuous improvement work with trend histories to check that processes are improving or if they are deteriorating.
- Uses the statistical summary and quality assurance reports to make critical decisions for product release and compliance to legal requirements.
- Combines properties with other in-process data to quickly establish process issues and give direction to potential fixes.
- Ensures quality, satisfies the customers’ need for transparency, drives improvement and reduces the time for new product releases.
- Avoids product quality issues by reducing variation.