



# **Sandia National Laboratories NWSMU Supplier Quality Management**

## **System Overview**

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# Outline of Presentation

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- 1. Background**
- 2. Supplier Quality Management Framework**
- 3. Supplier Quality Management Procedures**
- 4. Supplier Performance Tracking System**
- 5. Managing Supplier Quality**
- 6. Details**
- 7. Future Plans**

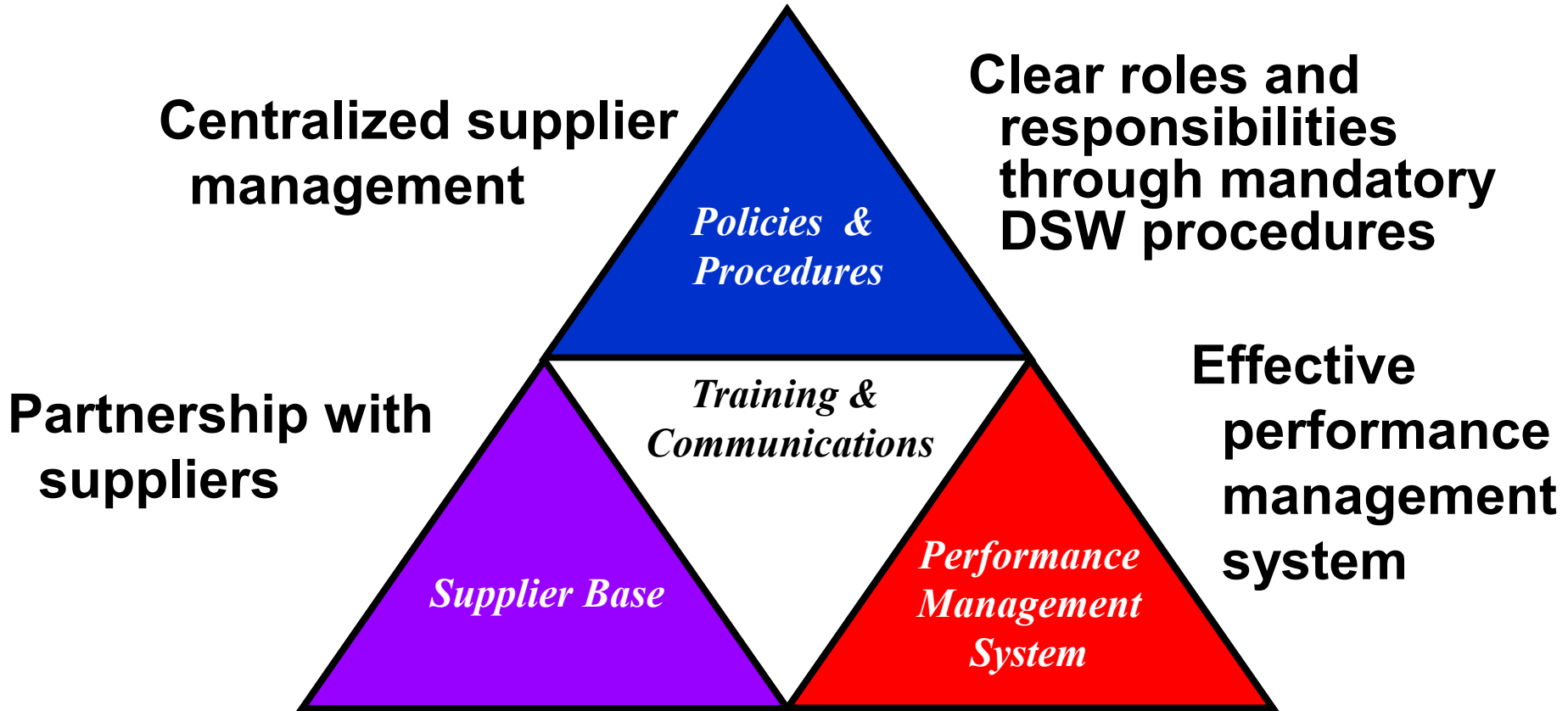


# Background

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- **January – June 2007**
  - **Cross-functional team lead by the technical line developed and refined a set of procedures, a system, and secured top management support of an independent Supplier Quality Management System for Mark Quality Production**
- **July 2007**
  - **Launch of NWSMU's Supplier Quality Management System**

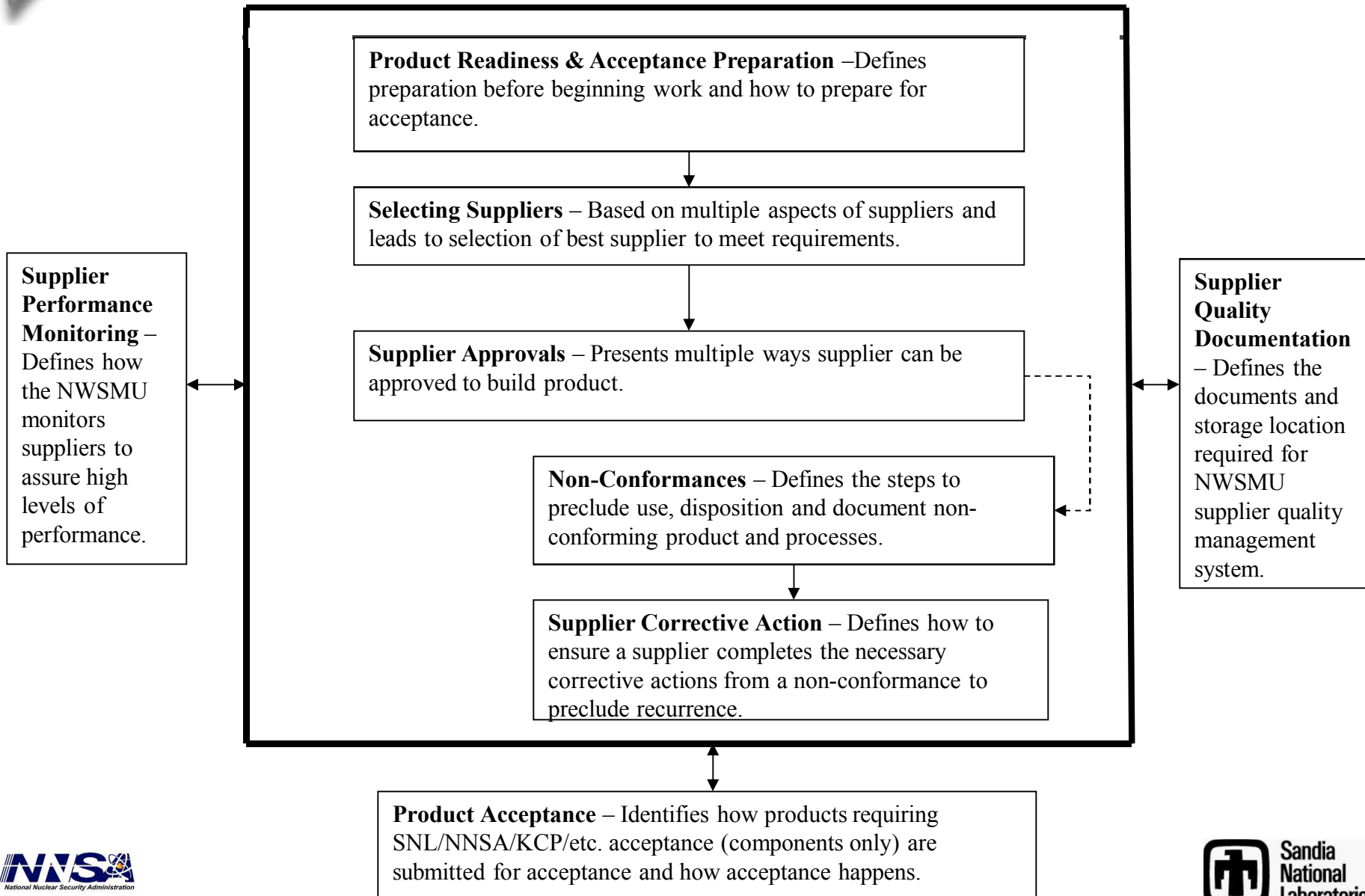
# Supplier Quality Management Framework



*Goal : To develop a Robust System that yields consistently acceptable outputs from the supply base*

# Supplier Quality Management Procedures

## Overall Structure





# **The Procedures: What They Are and What They Are Not**

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## **What They Are:**

- **Mandatory set of Directed Stockpile Work (DSW) procedures for supplier management when doing mark quality work**
- **What SNL will do to meet requirements of QC-1, TBPs, ISO etc.**
- **Living set of documents to be revised and changed as we learn and grow SNL production organization**
- **Work that can be tailored to unique circumstances**
- **A part of the NWSMU policies and procedures infrastructure, DSW procedures**

## **What They Are Not:**

- **Replacement for QC-1, TBPs, ISO or any other requirements document**
- **Tool to eliminate engineering judgment**



# Supplier Performance Tracking System (SPTS)

## Why:

- Capture supplier approval and performance data in a central location
- Need to allow manual data entry
- Create a single supplier list for SNL mark quality work
- Create an information repository for pro-active decision-making

## What:

- Collection of “meta-data” on supplier deliveries & assessments for use tracking, calculating metrics, reporting and notifying management of issues
- Only source data for supplier assessments

## How:

- Web-based stand-alone system (special access required for data entry and full viewing capabilities)

# Supplier Performance Tracking System (SPTS)

## Functionality:

- Manage consolidated approved supplier list
- Gather supplier performance results
- Track who is using each supplier
- Capture supplier surveillance/observations
- Notify: supplier approvals expiring & non-conformance/corrective actions created



# Managing Supplier Performance Becomes More Systematic

## **Objective:**

- Develop and establish a system to continuously monitor, provide feedback and improve supplier performance

## **Status:**

- Supplier Quality Management Council meets quarterly
- Leadership Council currently meets quarterly

## **Supplier Performance Metrics:**

- **On-time delivery**
  - Critical & Non-Critical Items
- **Quality**
  - % Parts Accepted
  - Lots w/ Non-conformance
  - Lot Quality Index
  - Mean Time Between Non-conformance
  - Mean Time to Corrective Action Resolution
  - Corrective Action Resolution to Target Date



# Supplier Quality Management Council

## **Purpose/Role:**

- Review & oversight of supplier quality, perform supplier monitoring
- Reports to the Directors of Energetic Component Realization and Responsive NG Product Deployment

## **Responsibilities:**

- Reviewing and analyzing data to assess supplier state of health
- Monitoring status of corrective actions
- Elevating issues
- Establishing a continuous feedback and improvement process

## **Membership:**

- Chairperson
  - Line Senior Manager (Rotated)
- Membership
  - 1700, 2400, 2500, 2700, 10200 , 12300 Senior Managers



# Details of this Project

- **Specific results achieved**
  - All external mark quality production governed by a single set of procedures
  - A single system contains supplier approvals, delivery and quality metrics, supplier surveillance data, and registered supplier users
  - Cross functional top management active involvement in the management of the supply base
- **Critical implementation success factors**
  - Dedicated top management support, talented staff level individuals who “took-up” the challenge
- **Barriers to implementation and how overcome**
  - Resistance to change was partially overcome through training, constant communication, and management support
- **Lessons learned**
  - Never underestimate resistance to change



# Future Plans

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- **Explore options to integrate into a Sandia wide or NWC Supplier Quality Management System. This would include shifting the ownership of the program to the Supply Chain Management Division.**
- **Continue to refine our procedures and system as feedback is received**