



TECHSOURCE®
A Science & Engineering Consultancy

Critical Supplier Program (CSP)

The current post-Cold War complex does not yield a continuous demand flow for products and services. Therefore, the need to preserve existing vendor relationships, re-engage with previous vendors, or identify new sources is pervasive throughout the Nuclear Security Enterprise.

In addition, the administrative costs incurred by commercial suppliers to meet the security and quality tolerances and strenuous acquisition processes has created an unappealing marketplace.

Achieving Modernization through CSP

Modernization demands a re-thinking of business approaches and relationships with critical suppliers. CSP addresses all aspects of a supply chain, including identifying single point failures and validating risks, recommending and implementing best approaches/mechanisms to mitigate and eliminate risks, and enabling sustainable supply chain improvements using best practices and innovative solutions to ensure:

- Qualified (possibly certified) vendor-supplied products/services are available upon demand to support the mission
- Requisite knowledge and skills are available to support customer mission objectives

TSI's Business Case Analysis (BCA) Drove Path forward

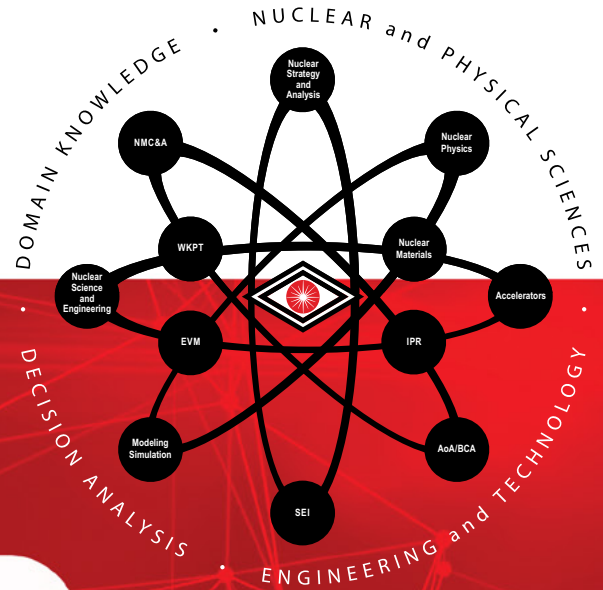
In 2019, Triad, with support from TechSource, conducted a BCA of LANL's weapons supply chain. The BCA identified and validated single point failures and recommended candidate management approaches to improve Supply Chain Surety (SCS). Findings noted:

- The classified machining capability is a vital requirement to support several LANL missions
- Integration of design, production, LANL, and vendor resources and define requirements is needed resources
- Vendors are receptive to strategic relationships with LANL

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Achieving Supply Chain Surety Utilizing the TechSource Team Our Experts Possess Decades of Hands-On Experience

- Weapons Engineering/Production
- High Precision Machining
- Critical Supply Chain Management
- Commercial Business Practices
- BCA
- Supply Chain Risk Assessment
- Quality Assurance
- Workforce Planning/Recruitment
- Pit Production/Manufacturing
- Warehousing
- Oversight New Facility Construction
- Operations/Distribution/Transportation



Overcoming Risks to Meet Mission

CSP identifies and validates the risks of single point failures in the supply chain.

CSP uses best practices and innovative approaches to mitigate risk while ensuring the long-term availability of domestic commercial goods and services critical to Triad's role at LANL in its weapons program including:

- **Minimum Production Orders**
Create long-term ordering agreements with fully-funded target/definite quantity production volumes to enable suppliers to develop a sustainable business model
- **Advanced Materials Work**
Identify materials that are single source and if possible outsource to qualified commercial suppliers
- **Technical Exchange**
Implement and fund multi-year contracts that not only result in a mutually supportive workflow, but expansion of technical exchanges that lead to engineering design reviews and reach beyond ad hoc visits
- **Coordinate and Develop Strategies with LANL and Vendors for Offsite SRD Facilities**
Provide program management support to LANL to contract with and oversee vendors to design and construct or retrofit facilities to SRD level capabilities to meet modernization needs

- Current approaches must change to address emerging technical issues
- A CSI pilot program to address the supply chain risks was established

CSI Pilot Success Leads to CSP

The CSI Pilot focused on three principal groups of supplies critical to LANL's support of the nuclear weapons mission and provided by commercial vendors: precision machinery, tooling, and engineering resources, bulk materials, and manufactured component parts. The success of the Critical Supplier Initiative drove its development into a Program at LANL.

Leveraging TSI's Expertise to Restructure Relationships and Approaches

Based on the BCA findings, Triad requested funding to support production volumes, materials, development needs, and supplier development costs.

TechSource was engaged to provide program management support including subcontracting directly with the commercial suppliers and establishing Triad-approved workplans.

The workplans contain quality objectives and deliverables setting minimum requirements for Qualified Suppliers:

- Securing a DOE NNSA Approved FOCI and Facility Clearance
- Meeting NAP 401.1 QA Requirements
- Engaging in best machining practices

Warehousing operations at LANL are currently dispersed and in need of expansion because they have reached capacity. TechSource, in support of LANL, will focus on: Interim Distribution Center; Warehouse and Distribution Center Design, Transition, and Operations; and Workforce Planning.

Progress toward NSE-wide SCS will require LANL to reach out to the weapons related laboratories to apprise each of the LANL's CSP. CSP's goal is to identify shared

We're the Go-To Experts for Experts

Science & Engineering Expertise

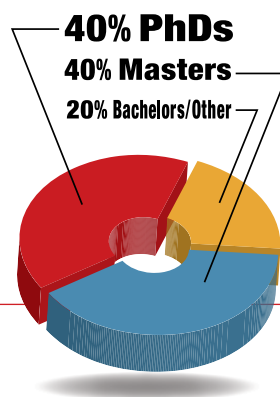
TechSource is a leading high-technology science and engineering small business offering recognized expertise in nuclear and physical sciences, engineering and technology, domain knowledge, and decision analysis.

Unparalleled Expertise

TechSource's talented and innovative 500-plus cohort is composed of experts, most with 35 years or more of hands-on experience.

Complex Management Solutions

TechSource offers policy to test bench technical and management services in coordination with point-of-interest expertise to organizations responsible



critical suppliers to assure that collective corresponding needs will be available to meet demand over planning horizons.

We bridge the knowledge gap on the part of the contractors and LANL's mutual needs. We understand the commercial contractors analysis of risk and their business decision drivers to facilitate LANL requirements.

Contact

Will Sanchez

CSP PM & Senior Procurement SME
wsanchez@TechSource-Inc.com

Dave Cornely

Project Manager
dcornely@TechSource-Inc.com

for developing, implementing, operating, and managing high-technology programs nationwide.

The World's Smartest Organizations Use TechSource

For over 20 years, TechSource has successfully supported a diverse and expanding client base, including U.S. federal agencies, the national laboratories, the Navajo Nation, universities, and commercial entities focused on solving some of the most complex issues facing the United States today.

Recognized Qualified Expert

TechSource is recognized as an independent, qualified expert whose advice and products uniquely and effectively bridge technical and programmatic requirements.

Our Supply Chain Surety Experts Are Adept at Restructuring Relationships and Approaches To:

- Mitigate and Eliminate Supply Risk
- Improve Operational Practices and Procedures
- Ensure QA of Materials, Machining, and Personnel Requirements
- Develop and Oversee Supplier Construction of Off-Site SCR Facilities
- Close Knowledge and Skills Gaps
- Drive Sustainability



TECHSOURCE®
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1475 Central Avenue, Suite 250
Los Alamos, NM 87544 • 505.988.1726
2440 Louisiana Blvd. NE, Suite 401
Albuquerque, NM 87110 • 505.828.2440
20251 Century Blvd., Suite 225
Germantown, MD 20874 • 301.515.1344
TechSource-Inc.com