

Defending the Supply Chain – Energetics Vulnerabilities Uncovered

S+3026 — Navy Industrial Base Assessment Tool (N-IBAT) for Critical Chemicals

Objective

Energetics are among the longest lead items for munition production, which significantly delays their delivery to the warfighter. Lack of supply chain transparency from materials procurement interferes with Energetics Manufacturing Technology Center’s (EMTC’s) ability to mitigate critical energetic material issues. The project objective is to refine and expand the proof-of-concept Navy Industrial Base Assessment Tool (N-IBAT) into a functional prototype and demonstrate its capabilities, which will help EMTC improve acquisition readiness, meet sustainment requirements and meet emerging performance requirements for PEO / PM / prime contractor transition.

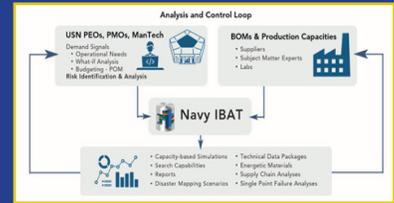
Iterative testing of N-IBAT will be done in close collaboration with Decision Sciences Incorporated to develop the N-IBAT into a functional tool with data storage, analysis, retention, update and retrieval capabilities for tracking Navy energetic supply chains. Data will continue to be organized and added into the N-IBAT database so that periodic updates can be performed to monitor changes in the supply chain and identify future needed efforts.

Payoff

The N-IBAT has benefactors across several levels. It will aid EMTC in tracking manufacturing data and developing investment strategies for critical chemicals. Stakeholders, such as Assistant Secretary of the Navy for Research, Development, and Acquisition, Deputy Assistant Secretary of Sustainment, and Navy PEOs and PMs benefit from the database because it will improve their supply chain risk planning and provide increased awareness of Navy supply chain issues. By integrating the N-IBAT with other DoD supply chain management systems, DoD can then use the joint IBAT to perform supply chain risk planning across all DoD weapons acquisitions. It is possible that the N-IBAT will improve the effectiveness of leveraging DoD investments, including Innovation, Capability, and Modernization (ICAM), the Defense Production Act Title III and the Manufacturing Science and Technology Program. This tool can maintain a more robust industrial base to support future energetic material (EM) requirements because it can provide insights that will help suppliers better address government needs and facilitate planning for efficient incorporation of novel manufacturing technologies into the supply chain.

Implementation

Transition and implementation of the prototype N-IBAT will help improve acquisition readiness and meet sustainment and emerging performance requirements for PEO / PM / prime contractor transition. Transition will occur when DoD and Navy leadership adopt and maintain N-IBAT for monitoring Navy energetics supply chains. Accurate, detailed supply chain mapping of EM will be implemented by various Navy and DoD stakeholders. Activities include EMTC to provide insight on EM acquisition and performance requirements, Navy leadership to develop a plan to integrate N-IBAT with existing DoD supply chain risk management systems and Office of the Secretary of Defense to develop DoD energetics supply chain risk mitigation efforts.



PERIOD OF PERFORMANCE:
February FY2024 to September
FY2028

PLATFORMS:
All naval weapons

CENTER OF EXCELLENCE:
Energetics Manufacturing
Technology Center (EMTC)

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STAKEHOLDERS:
ASN RD&A
DASN Sustainment
OASD for Industrial Base Policy,
OUSD (A&S)
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