



R028, Metrology Program



Ron Rodger
NA-121.3



NATIONAL NUCLEAR SECURITY ADMINISTRATION OFFICE OF DEFENSE PROGRAMS

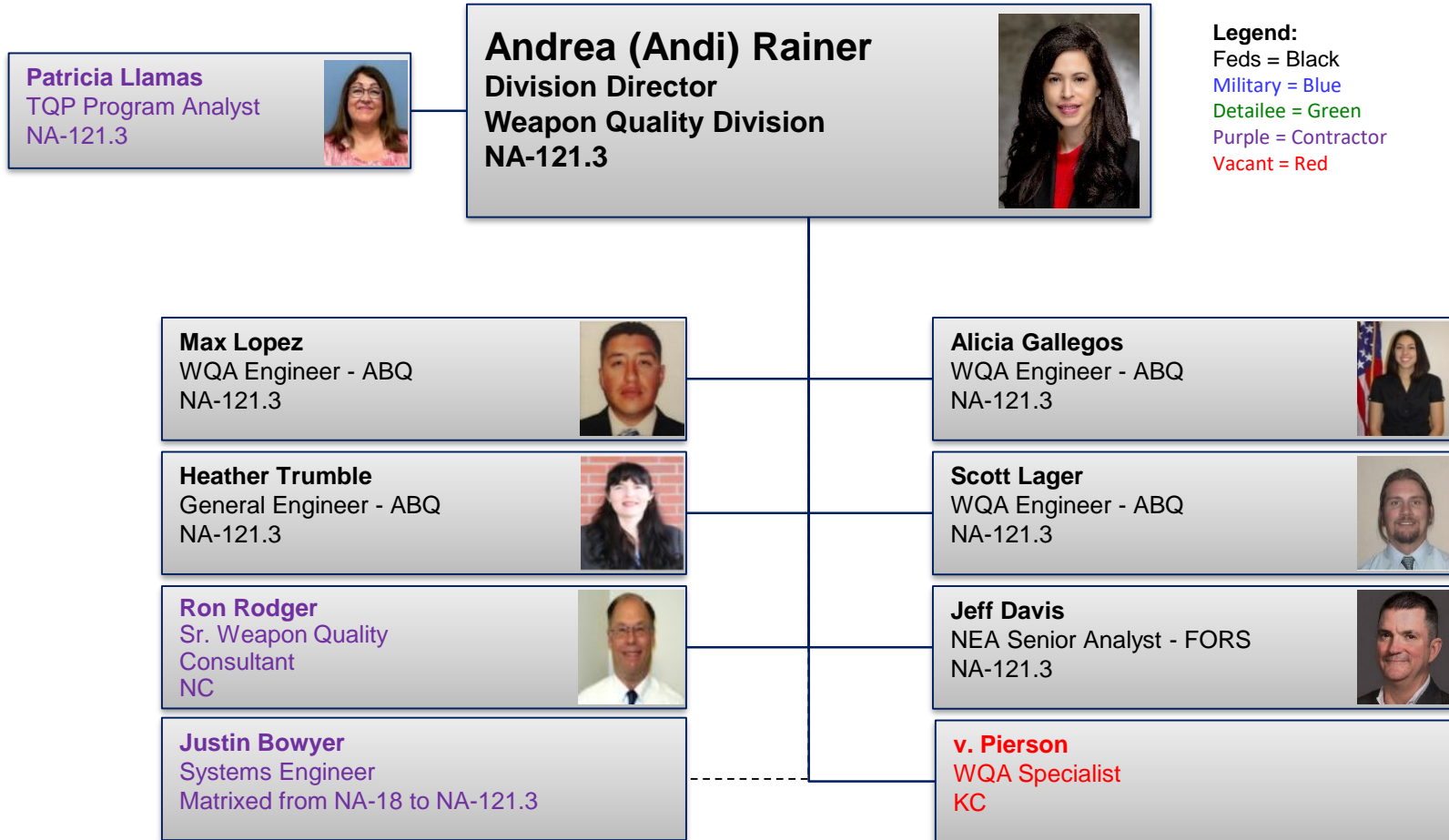


NA-121 Division Structure





NA-121.3 Organizational Structure



NA-121.1
NA-121.2
NA-121.3
NWDA
NBL



Roles and Responsibilities



WQA Policy Stewardship

WQA Performance Evaluation



Continuous Improvement Initiatives

Defense Programs Integration



Issue Resolution

Knowledge Sharing and Preservation



Nuclear Enterprise Assurance

- Develop, interpret, and maintain the *Weapon Quality Policy*, including the Weapon Quality Management Systems (WQMSs) and early and continuous application of quality principles when realizing Mark Quality products
- Establish the minimum qualification standards for WQD and F/PO WQA personnel responsible for executing Weapon Quality Assurance (WQA) processes
- Establish an NNSA Metrology Program by specifying requirements for measuring and test equipment (M&TE) to ensure accuracy of measurements and standards
- Analyze WQA performance information to document and communicate the health of the NSE WQMS to facilitate continuous improvement
- Provide routine WQA subject matter expertise to NA-10 and drive resolution between Federal Program Offices and WQA personnel from F/POs, DAs, and PAs to address urgent WQA issues

NA-121.1

NA-121.2

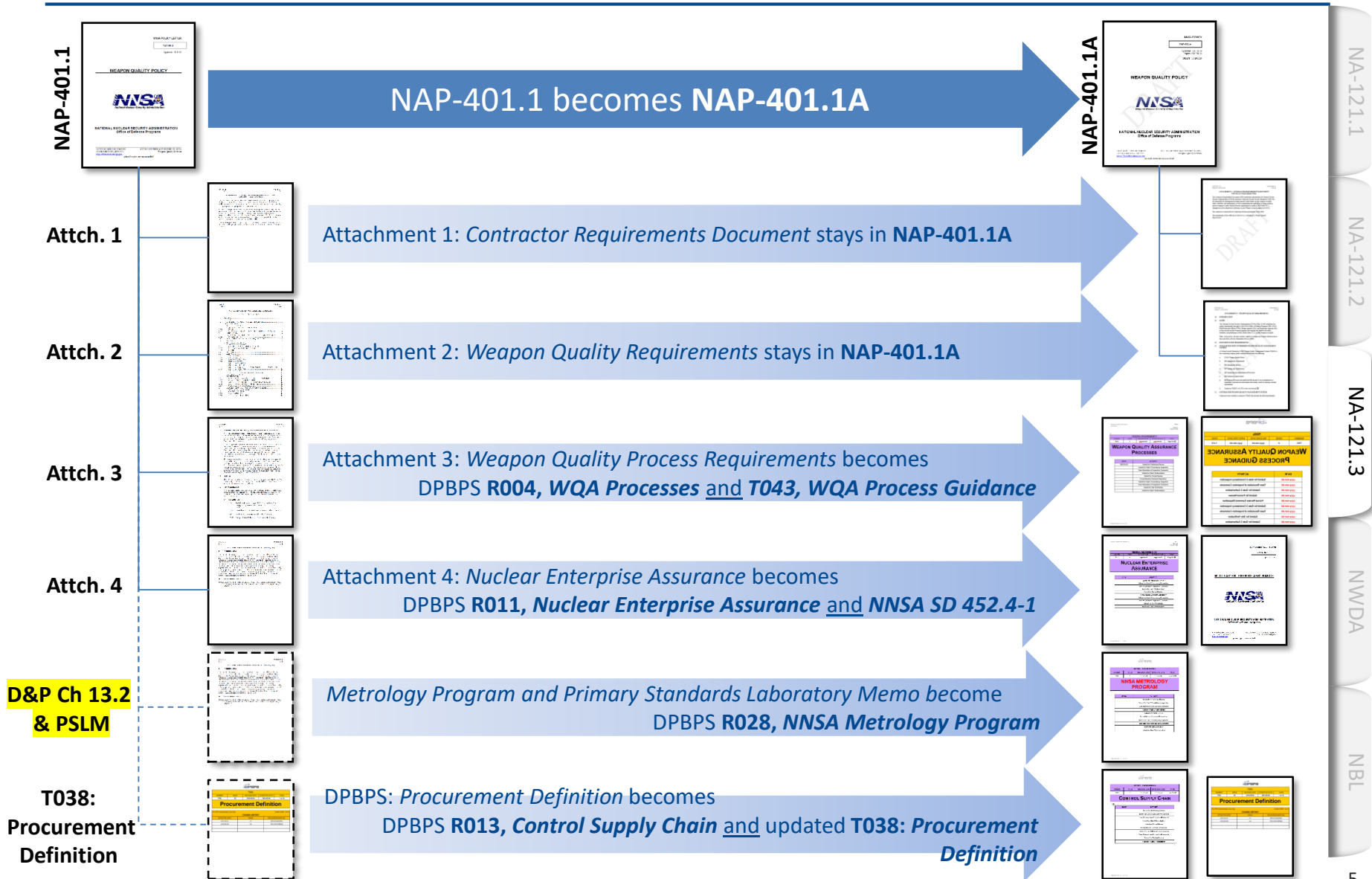
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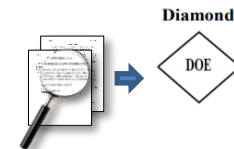
WQA Policy Stewardship





WQA Performance Evaluation

- Quality Assurance Survey (QAS)
 - QAS 1: Weapon Quality Management System (WQMS)
 - QAS 2: Weapon Program
 - QAS 3: Process
 - QAS 4: Operation
- Primary Standards Laboratory
 - Provides the highest-level metrology organization for the NNSA Metrology Program
- Verification Inspection and Stamping Delegation Authority
 - Verification Inspection of products
 - Delegation Authority





R028 Schedule

- Draft R028 Preliminary / Stakeholder Review ended August 13, 2021
- Comments Addressed by 11/5/2021
- PRRO Activities (FRs, Tech Editing) through 12/15/2021
- Formal Review across NSE released between late December/Early January
- 30-day Review
- Addressing Comments
- Potential Approval/Release in May/June Timeframe

NA-121.1

NA-121.2

NA-121.3

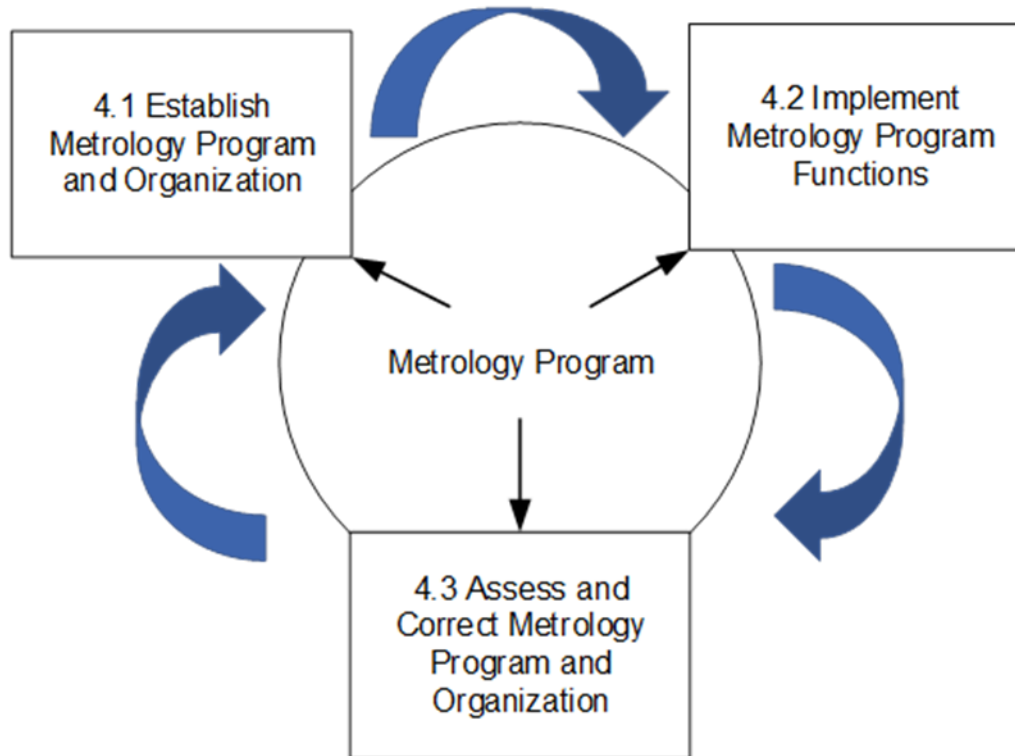
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What is new?

- R028 Content will Supersede these documents:
 - Development & Production Manual, Chapter 13.2, Metrology Program
 - Primary Standards Laboratory Memorandum (PSLM)
- R028 Content Uses a Process Flow



NA-121.1

NA-121.2

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1. SCOPE

This content defines the overall National Nuclear Security Administration (NNSA) Metrology Program by specifying requirements for NNSA metrology programs and control of Measuring and Test Equipment (M&TE).

The NNSA Metrology Program is established for the Department of Energy (DOE)/NNSA and its contractors and subcontractors who are engaged in activities related to: Research, Development, Testing, and Evaluation (RDT&E), design, preproduction, production, dismantlement, maintenance, stockpile evaluation, surveillance, disassembly/disposal of nuclear weapons and nonweapons, and general operations activities.



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