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# **NRIC Workshop**

## **Procurement and Construction Practices**

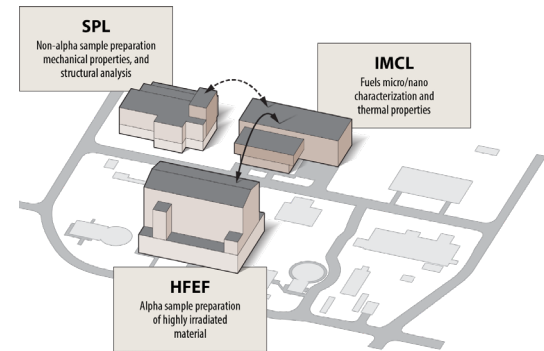
# Nuclear EPC Constraints

## Traditional Procurement Strategy:

- Procure from NQA-1 qualified Contractor
- Appendix-B as primary and secondary levels

## Current State Constraints:

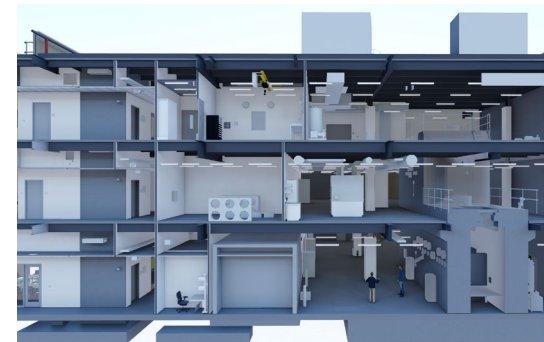
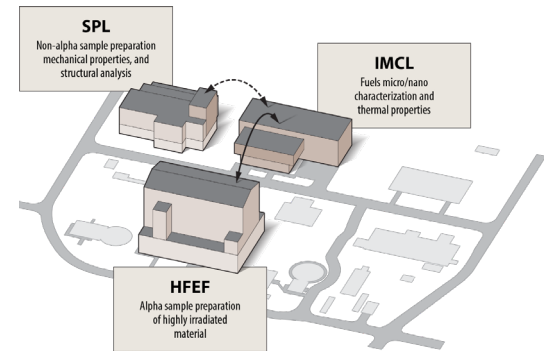
- Limited bidding pool of NQA-1 EPC Contractors
  - Local to construction site
- Limited pool of Appendix B / NQA-1 components
  - Graphite
  - High temp alloys / components
  - New fuel forms
- Code Constraints:
  - ASME Section III Div. 5
  - Code cases for graphite and other high temp materials



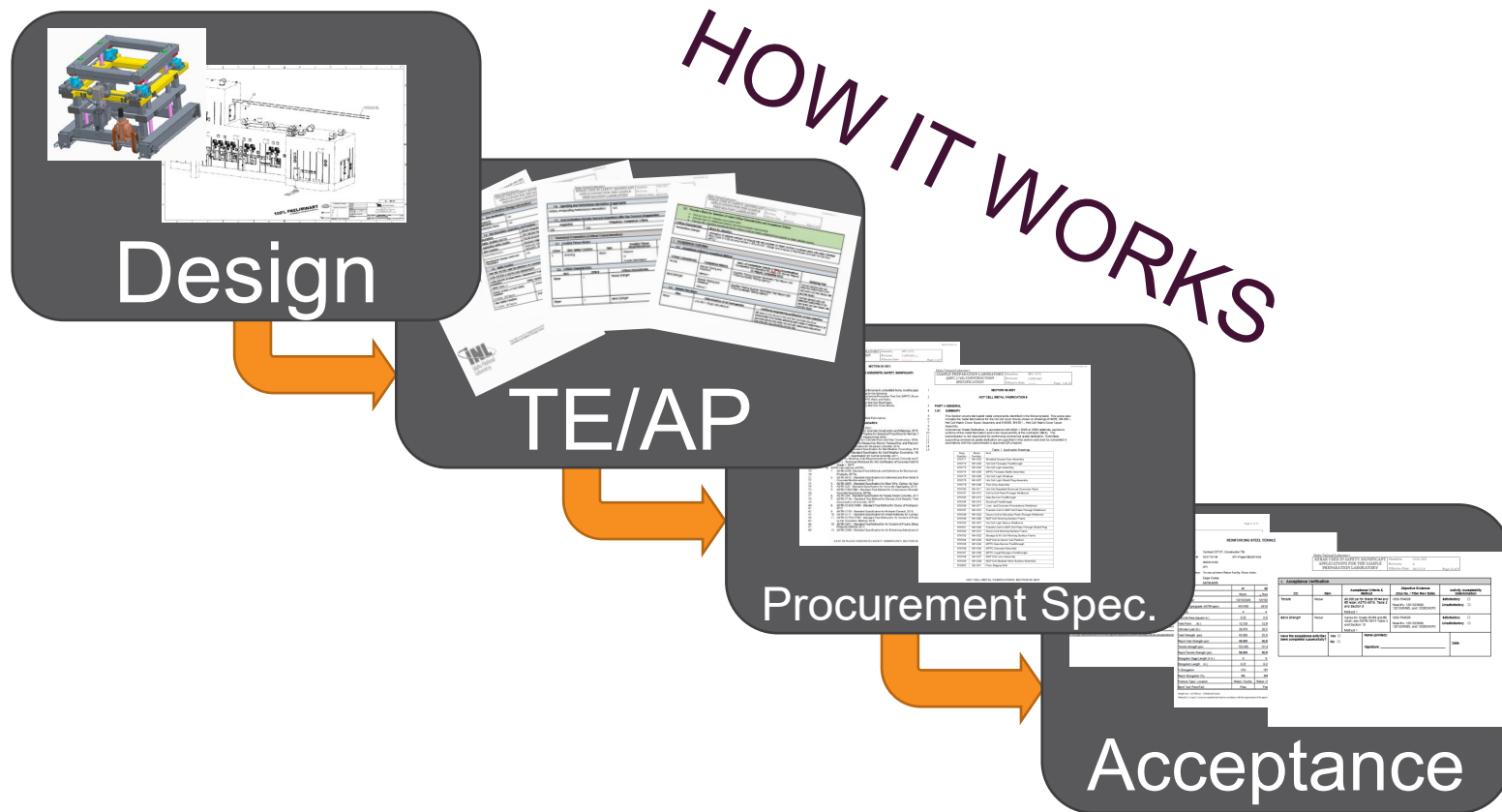
# Potential EPC Solutions

## Quality Implementation Strategy:

- Designer / Licensee:
  - Implement Appendix B Compliant Program (e.g., NQA-1)
  - Improve existing practices for procurement from commercial supply chain
    - Commercial Grade Dedication (Example)
      - Dedicate rebar and concrete via Method 1
        - ISO-17025 qualified lab to perform testing
        - INL Qualified Supplier
      - Use of CGD Method 2
    - Procurement from Commercial Suppliers:
      - EPRI 5652 Appendix F
    - Use of Accreditation:
      - ISO 17025
      - NQA-1 Part II subpart 2.19



# How Did we Do It?



# QUESTIONS?

