



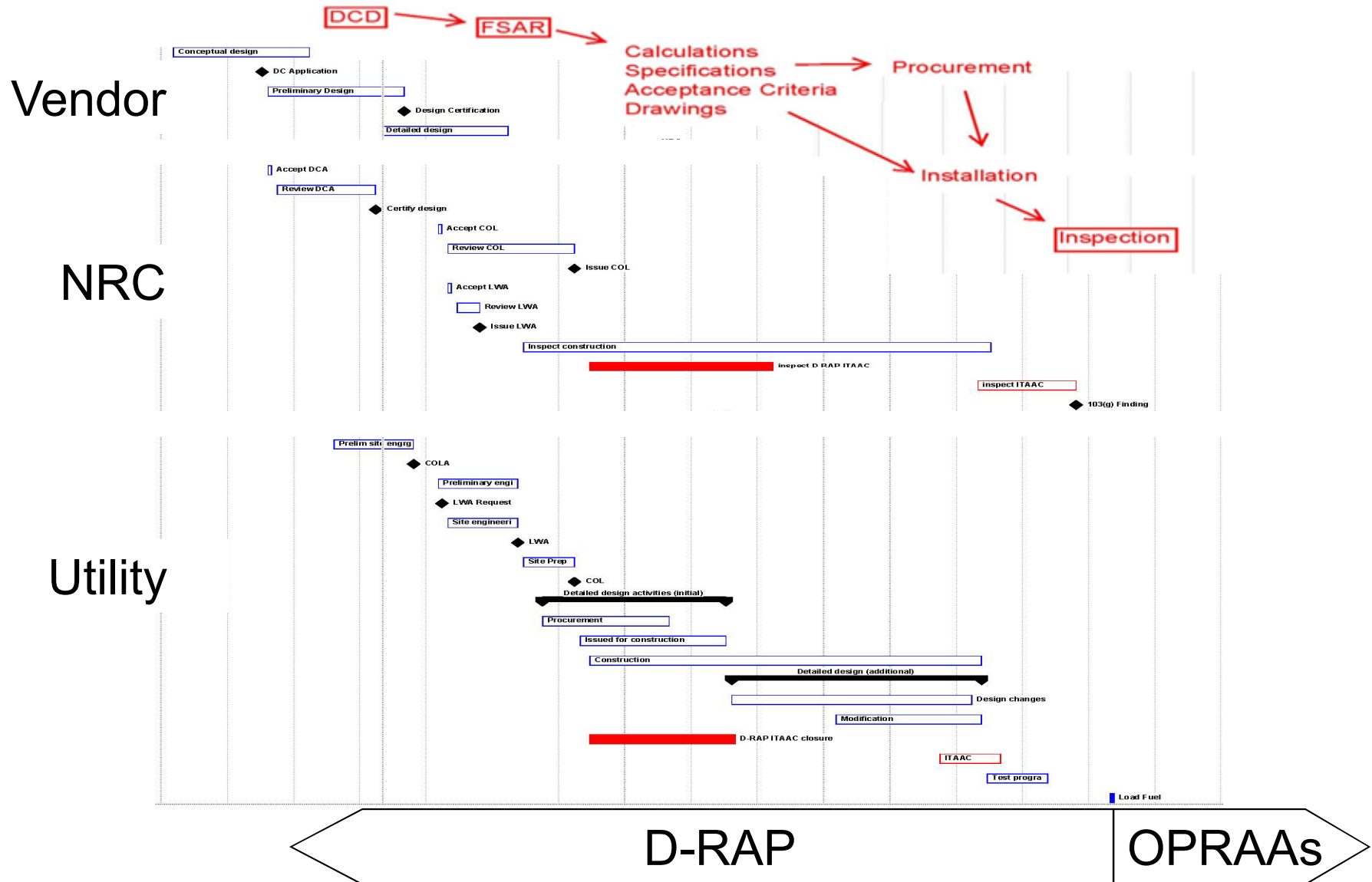
D-RAP ITAAC

Pre-Application Audit

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RAP Timeline



ITAAC Expectations

D-RAP activities ensure that design **as issued** is faithful to the **licensed** design (D-RAP ITAAC)

Other D-RAP activities **will** ensure that the plant **as built** will be faithful to the design **as issued** for

- *Procurement*
- *Fabrication*
- *Construction*

Model D-RAP ITAAC

Design Commitment	Inspections, Tests, and Analyses	Acceptance Criteria
For structures, systems, and components within the scope of the reliability assurance program (RAP SSCs), the design is consistent with risk insights and key assumptions.	An analysis will demonstrate that the initial design of all RAP SSCs (for procurement and installation) has been completed in accordance with the D-RAP.	The initial design of all RAP SSCs identified at the time of the COL issuance has been subject to the applicable reliability assurance activities of the D-RAP.

SRP Definitions for Tier 1

SRP 14.3, Appendix A, Part IV, Section 1

A. *Definitions*. This section defines terms used in Tier 1 that could be subject to various interpretations. The intent is to be consistent and as closely aligned as possible with the terminology in the SSAR, in common industry use, industry codes and standards, and NRC regulations, and guidance. Thus, should questions on terminology arise, these references would aid in understanding the intent of the information in Tier 1.

Inspection

x. ...*Inspection* mean[s] visual observations, physical examinations, or reviews of records based on visual observation or physical examination that compare the **structure, system, or component condition** to one or more **design commitments**. Examples include walkdowns, configuration checks, measurements of dimensions, or nondestructive examinations. [emphasis added]

Analysis

- ii. *Analysis* means a calculation, mathematical computation, or engineering or **technical evaluation**. Engineering or technical evaluations could include, but are not limited to, comparisons with operating experience or design of similar structures, systems or components.

Initial Design

Plain English, not a term of art

- Purchase specifications for RAP SSCs
- Construction drawings for RAP SSCs
- Supporting calculations
- **ITAAC need not address**
 - Revisions or design changes
 - Test acceptance criteria, setpoints, calibration data, etc.

All RAP SSCs

Objective

- Demonstrate that 100% of RAP scope **as defined in the COL** is addressed in detailed design that was prepared according to the appropriate D-RAP assurance activities.

Programmatic Review

- Program described in DCD and COLA
- Audited prior to COL
- Inspected during construction

Changes in Scope

- Essential elements of D-RAP ensure the capture of items that become risk-significant SSCs after COL issuance due to modifications or new information
- ITAAC not needed to ensure additions to scope occur

ITAAC Wording

- Wording in the model is only one acceptable example.
- Applicants are not expected to copy the language, but are free to amend if they choose.
- Maintain emphasis on demonstrating that appropriate reliability activities controlled the detailed design of RAP SSCs.
- Ensure that closure of D-RAP ITAAC is practicable.