

D-RAP ITAAC

Presentation to
**Construction Inspection
Program Workshop**

May 13, 2010

Reliability Assurance Program

- RAP assures that systems, structures, and components are as reliable and as available as assumed when the design is certified.
- RAP applies to reliability assurance activities from the time of design certification until decommissioning.
- RAP has two phases
 - Design phase (D-RAP) prior to fuel load
 - Operational phase (OPRAAs)

Design Reliability Assurance Program

Definition: *All* reliability assurance activities prior to initial fuel load

(Operational-phase programs may not yet be in place)

Scope: *All* risk-significant SSCs (SR & NSR)

Purpose: Assure that **as-built** SSCs will be

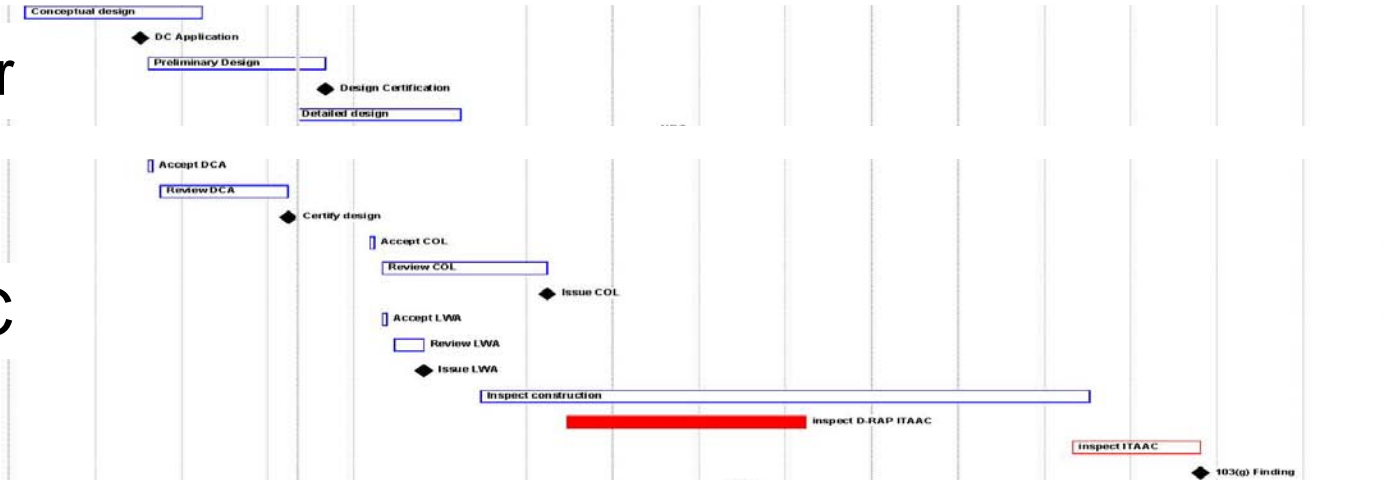
- as **reliable**
- as **available**

as **assumed** at licensing

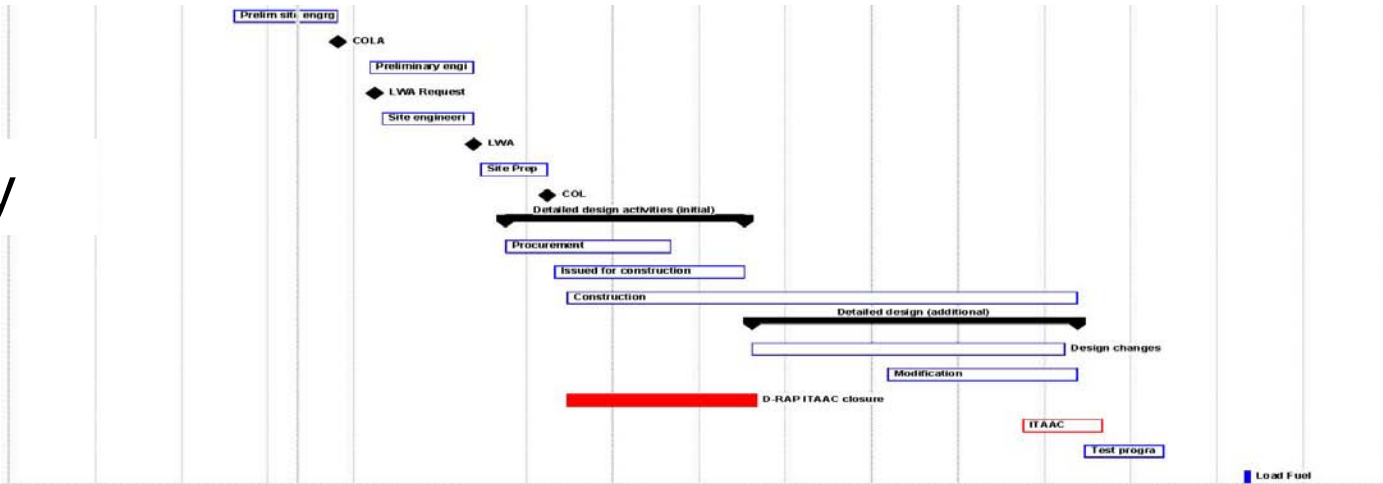
(at fuel load—from that time forward, OPRAAs suffice)

RAP Timeline

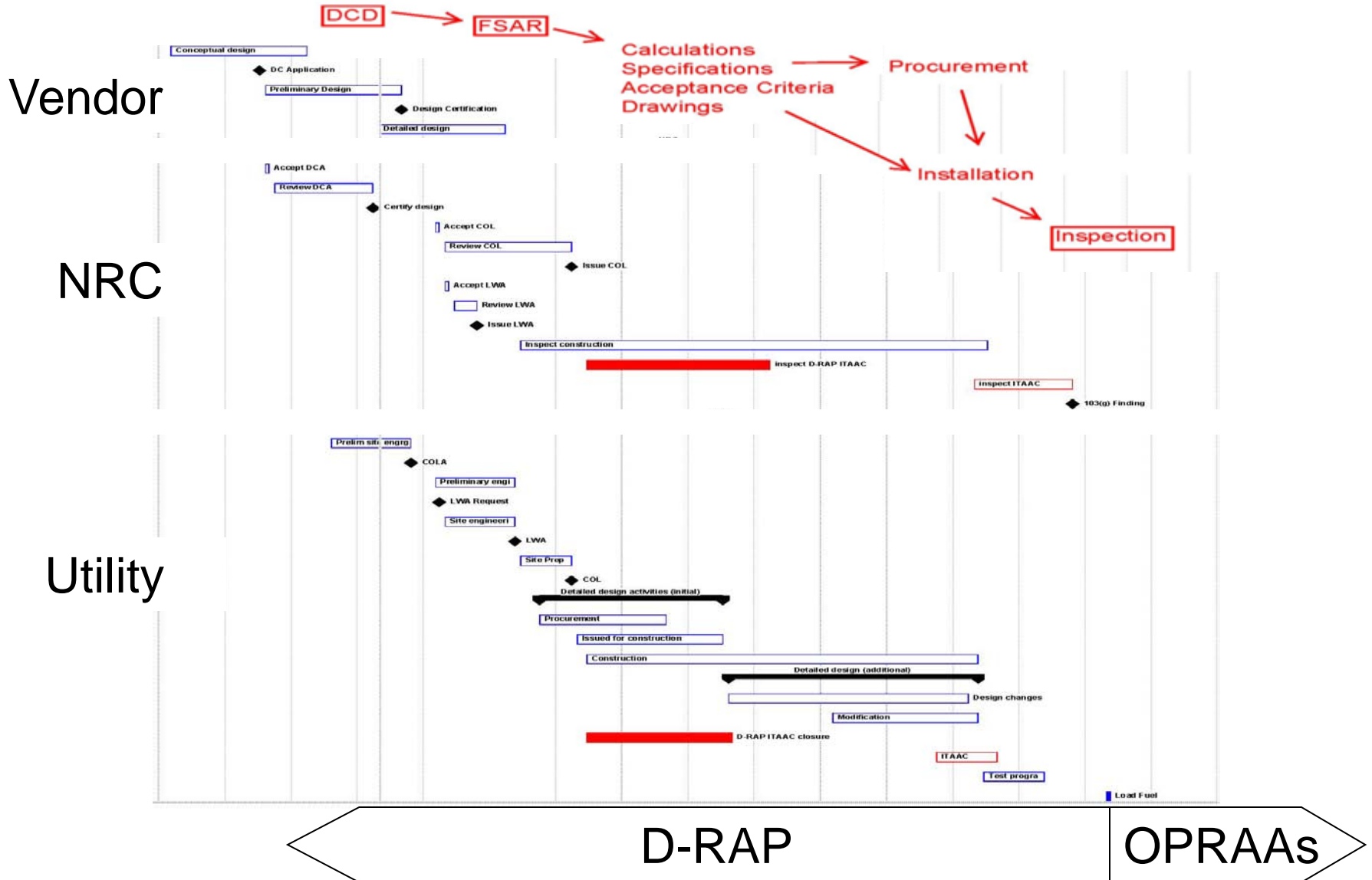
Vendor



Utility



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*
- *Testing*
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Interim Staff Guidance DC/COL-ISG-018

Revised guidance for

- **D-RAP in DCD**
- **D-RAP in COLA**
- **ITAAC for COL holder**

Model D-RAP ITAAC

Design Commitment	Inspections, Tests, and Analyses	Acceptance Criteria
<p>For structures, systems, and components within the scope of the reliability assurance program (RAP SSCs), the design is consistent with risk insights and assumptions.</p>	<p>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.</p>	<p>The initial design of all RAP SSCs has been subject to the applicable reliability assurance activities of the D-RAP.</p>