

D-RAP ITAAC

Presentation to EPR Design Center Working Group

March 25, 2010

Reliability Assurance Program

- Assures that systems, structures, and components are as reliable and as available as assumed at licensing
- Applies from initial design until decommissioning
- Two phases, divided by initial fuel loading
 - Design phase (D-RAP)
 - 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)

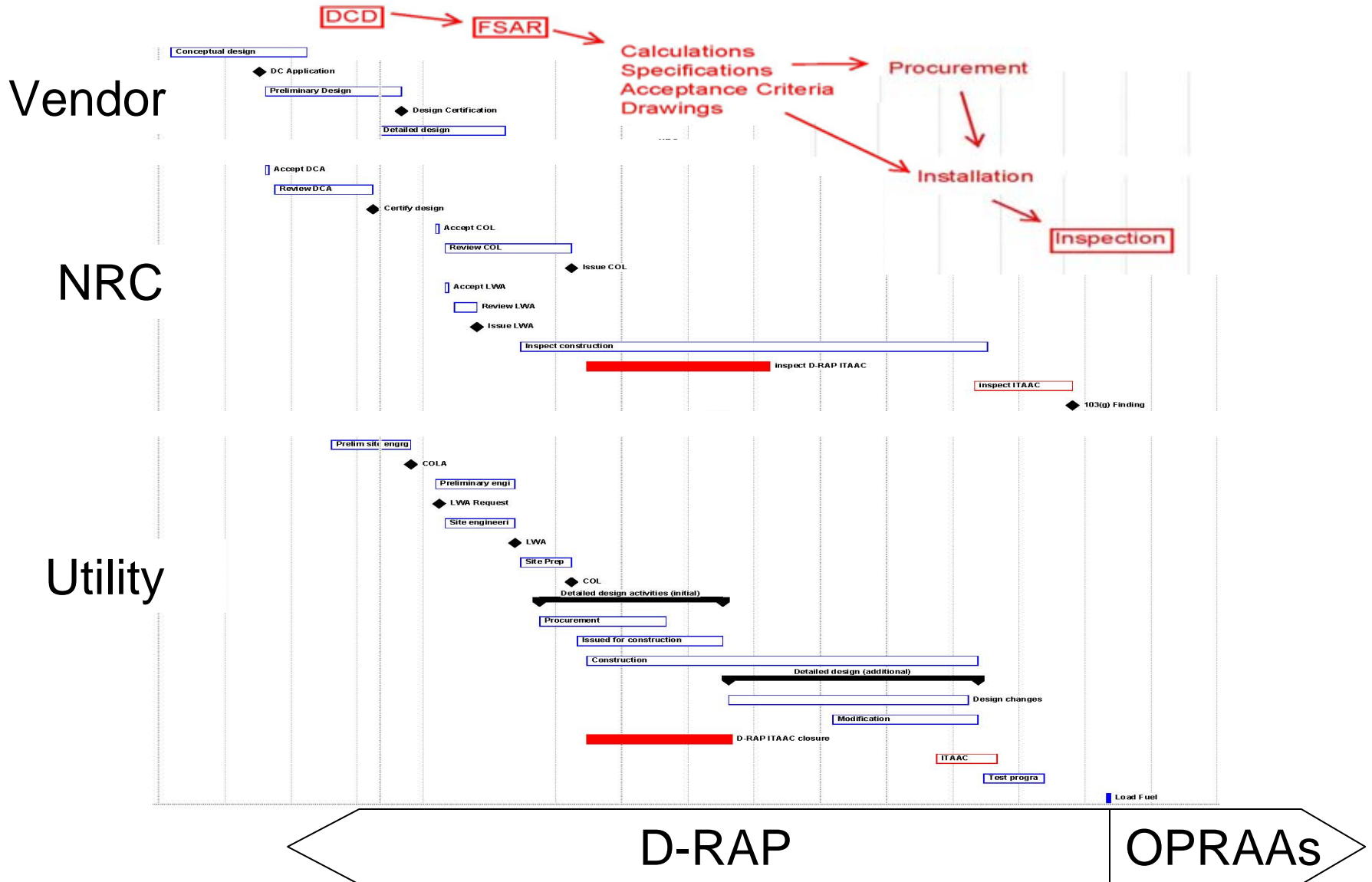
Purpose: Assure that **as-built** SSCs will be

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

as **assumed** at licensing

(at fuel load—from then, it's OPRAAs)

Timeline



Expectations

Under D-RAP ITAAC

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

Under other ITAAC

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

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

Revised guidance for:

- D-RAP in DC Application
- D-RAP in COL Application
- ITAAC for COL Holder

D-RAP ITAAC

Design Commitment	Inspections, Tests, and Analyses	Acceptance Criteria
<p>Ensure that the design of systems, structures, and components within the scope of the reliability assurance program (RAP SSCs) is consistent with the risk insights and key assumptions (e.g., SSC design, reliability, and availability).</p>	<p>An analysis will confirm that the design of all RAP SSCs has been completed in accordance with applicable D-RAP activities.</p>	<p>All RAP SSCs have been designed in accordance with the applicable reliability assurance activities for the D-RAP.</p>



Questions?