



US EPR
Design-Centered Working Group Meeting with the NRC

Rockville, Maryland

May 23, 2007



Relationship Between the Design Certification and Combined License Applications

US EPR DC/COL Application Status

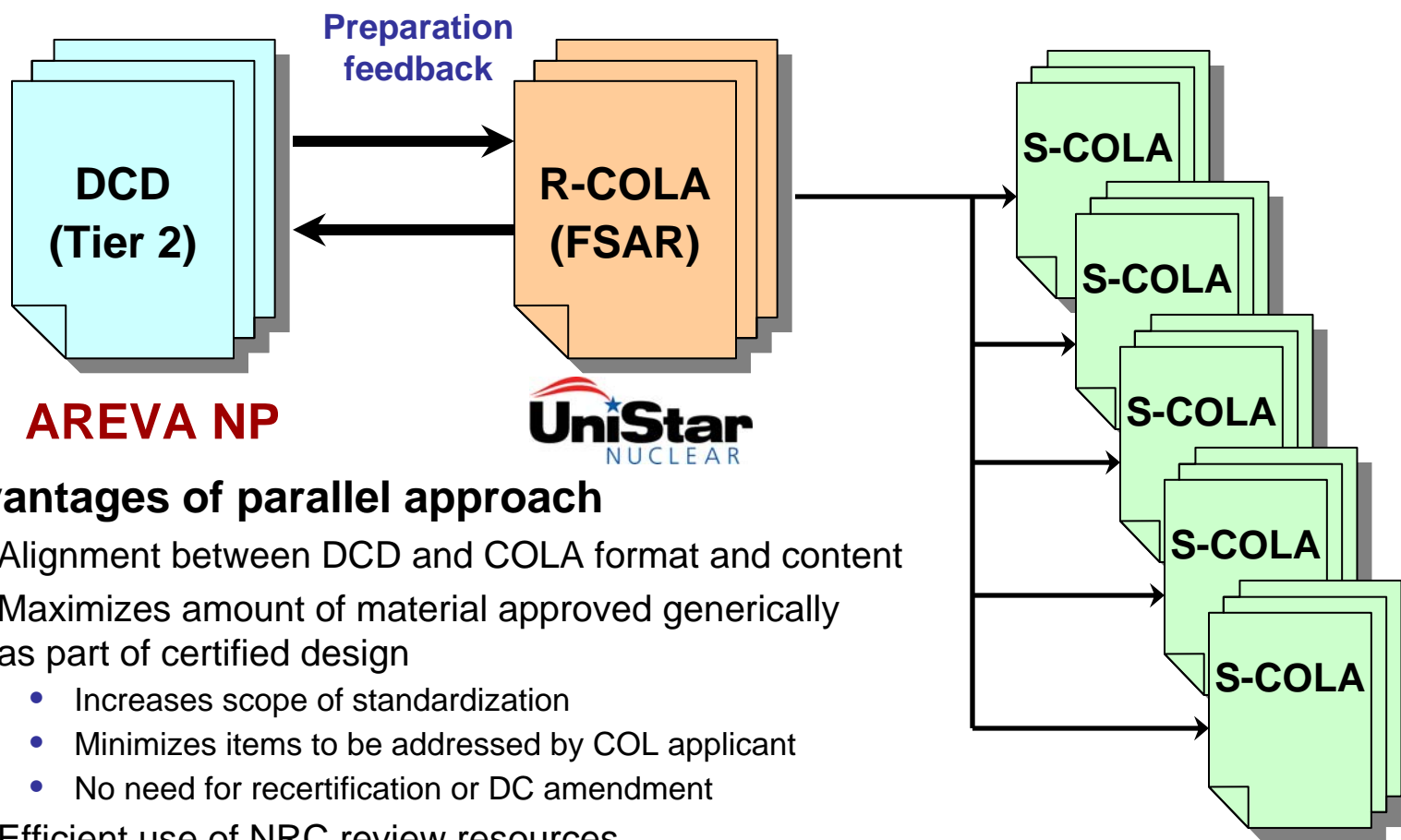
- Progress on preparation of the Design Certification (DC) and Combined License (COL) applications continues on track
- Plan to submit the Environmental Report (ER) portion of the Reference-COL (R-COL) application for Calvert Cliffs Nuclear Power Plant (CCNPP) Unit 3, along with required additional R-COL application sections (e.g., Final Safety Analysis Report (FSAR) Chapter 2, “Site Characteristics”) by end of June 2007
- AREVA plans to submit the DC application before end of year
- Expect to submit the remainder of the R-COL application by the end of the year, after submittal of the DC application

Relationship Between the Design Certification and Combined License Applications

US EPR Licensing Approach

Design Control Document (DCD) and COL Application (COLA) prepared and reviewed concurrently

Subsequent-COLA ~80% same as R-COLA



■ Advantages of parallel approach

- Alignment between DCD and COLA format and content
- Maximizes amount of material approved generically as part of certified design
 - Increases scope of standardization
 - Minimizes items to be addressed by COL applicant
 - No need for recertification or DC amendment
- Efficient use of NRC review resources

Relationship Between the Design Certification and Combined License Applications Interfaces

- DCD and COLA (FSAR) Table of Contents consistent and based on Regulatory Guide (RG) 1.206
- Overall scope of DCD and COLA (FSAR) governed by new 10 CFR 52 and RG 1.206
- COLA (FSAR) addresses COL items of DCD (~ 250 items to date)
- DCD text not repeated in COLA (FSAR)
- COLA (FSAR) and DCD together make up the plant-specific DCD for CCNPP Unit 3

Relationship Between the Design Certification and Combined License Applications Interfaces

- DC and COL Application Projects maintain common schedule base
- Weekly meetings define progress/issues and formulate joint solutions
- Close working relationships between DC and COLA Regulatory Affairs teams
- Executive level interface ensures overall strategic alignment

Operational Programs

- No regulatory restrictions precluding the DC application from including a description of the operational programs specified in SECY 05-0197 that have a nexus to plant design
- A “fully described” operational program, covering the program and its implementation, will be provided by the information in Tier 2 of the DC application and in the COL application
 - Pre-Service Inspection (PSI)
 - In-Service Inspection (ISI)
 - Pre-Service Testing (PST)
 - In-Service Testing (IST)
 - Environmental Qualification (EQ)
 - Reactor Vessel Material Surveillance (RVMS)
 - Containment Leakage Rate Testing (CLRT)
 - Fire Protection (FP)
 - Motor-Operated Valve Testing
 - Initial Test Program

Operational Programs

- Remaining operational programs specified in SECY 05-0197, i.e., training, radiation protection, quality assurance, emergency plan, security plan, monitoring effectiveness of maintenance, process effluent monitoring and sampling, will be fully described in the COL application
- Example of information provided in the DC and COL applications for the EQ program
 - **DC Application**
 - Listing of equipment to be qualified
 - Listing of equipment location
 - Environmental envelope
 - Equipment qualification method
 - Documentation requirements
 - **COL Application**
 - Identification of any site-specific equipment required to be environmentally qualified
 - Implementation schedule
 - Commitment to required records
 - Verification of as-built conditions

Configuration Management After Submission of Applications

- Issue is maintaining the DC and COL applications that the staff are reviewing current with changes to either application
 - Request for Additional Information (RAI) responses
 - Conforming changes (rules and guidance)
 - Corrections
 - Other identified changes

- Proposed update schedule
 - Application changes (marked-up DC and COL pages) typically to be submitted with RAI responses
 - Periodic roll-ups will constitute formal revision on a six-month frequency
 - Subsequent COL applications will be changed as appropriate

Other DCWG Issues

- **NUREG-1555 Update**

- To be reflected in a subsequent revision of the ER as necessary

- **ER Submittal Format**

- Hard copy will be submitted in June 2007 (CDs will be made available)
- Electronic version to be submitted with remainder of COL application

- **International Operating Experience**

- US EPR is an evolution of plants that have operated in the U.S.
- Will address NRC Generic Letters and Bulletins issued after the most recent revision of the Standard Review Plan (SRP) and six months before the docket date of the application

- **Inconsistent NRC guidance regarding Offsite Dose Calculation Manual (ODCM)**

- Process and effluent monitoring and sampling program can be fully described without submitting ODCM and Process Control Program (PCP)