



COMMISSION BRIEFING ON NEW REACTORS

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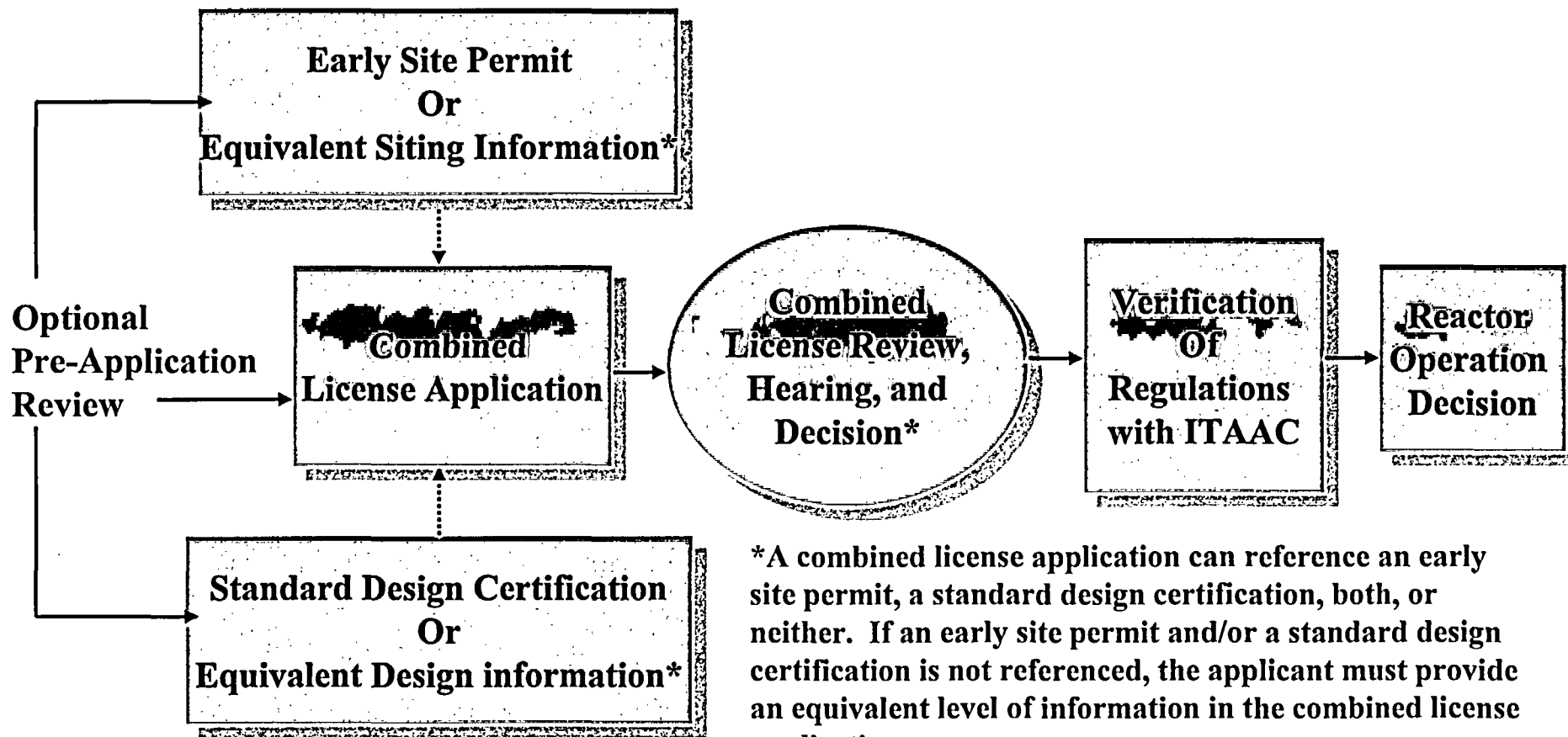
ACRONYMS

AP	advanced passive
COL	combined license
CIP	construction inspection program
DC	design certification
EIS	environmental impact statement
EP	emergency planning
EPR	Framatome's evolutionary power reactor
ESBWR	GE's economic and simplified boiling water reactor
ESP	early site permit
FEIS	final environmental impact statement
FSER	final safety evaluation report
FY	fiscal year

ACRONYMS (cont.)

GE	General Electric Company
ITAAC	inspections, tests, analyses, and acceptance criteria
MDAP	multi-national design approval program
NEI	Nuclear Energy Institute
OGC	Office of the General Counsel
OIP	Office of International Programs
OPM	Office of Personnel Management
PPE	plant parameter envelope
PRA	probabilistic risk assessment
SER	safety evaluation report
SNC	Southern Nuclear Corporation
SRP	standard review plan

Part 52 Licensing Process



*A combined license application can reference an early site permit, a standard design certification, both, or neither. If an early site permit and/or a standard design certification is not referenced, the applicant must provide an equivalent level of information in the combined license application.

Agenda

- **New reactor licensing status & key accomplishments**
- **Infrastructure improvements**
- **FY 2008 forecast and preparation**
- **Human resources status & strategies**

New Reactors Status and Key Accomplishments

- **Early Site Permits**
- **Design Certifications**
- **Infrastructure improvements**

Early Site Permits

- **2 of 3 FSERs completed**
- **ESP Pre-Application activity**
- **Lessons Learned**
 - **Plant Parameter Envelope**
 - **Emergency Planning**
 - **EIS & public comment resolution**
 - **Other regulatory & governmental interface**
 - **Seismic methodology change**

Design Certification

- **AP 1000**
- **ESBWR**
- **EPR**
- **MDAP Stage 1**
- **Other Designs**

Multinational Design Approval Program (MDAP)

- **Commission has approved Stage 1**
- **Discussions continue**
- **OIP coordinating participation**
- **NRR role:**
 - **Responsible for regulatory decisions**
 - **Manage review topics**
 - **Integrate technical contribution from participating regulators**
- **EPR likely to be first design**

Part 52 Update-Purposes

- **Responsive to prior industry comments**
- **Achieves greater clarity**
- **Improves efficiency & effectiveness**
- **Promotes regulatory certainty**

COL Regulatory Guidance

- **COL application guidance**
- **Operational programs & EP-ITAAC**
- **Security issues**

Construction Inspection Program

- **ESP Inspections**
- **Pre-COL Inspections**
- **ITAAC Inspections**
- **Non-ITAAC Inspections**

Review Enhancement

- **Streamline Standard Review Plan (SRP) update process**
- **Develop or revise “other” guidance documents**
- **Increase use of Pre-application reviews**
- **Develop strategies for future review efficiency and effectiveness**

FY 2008 Challenges

- **Significant increase in number of potential applications**
- **Increased number and scope of issues to be resolved at COL**
 - **Site–design compatibility issues**
 - **Individual COL reviews will take added time and resources**

New Reactor Forecast

FY 2006

FY 2007

FY 2008

Finish 3 ESPs

Start Southern ESP → Start Southern COL*

Continue ESBWR DC →

Start EPR DC

Start Unannounced COL* →

Start Dominion COL →

Start Duke COL

Start NuStart 1 COL

Start NuStart 2 COL

Start UniStar 1 COL*

Start Entergy COL*

Start Progress 1 COL*

Start Progress 2 COL*

Pre-application Reviews →

*Identifies new items, not scheduled in April 2005 Commission Meeting

Organizing & Planning for FY 2008

- **Streamlined organizations**
- **Infrastructure Improvements**
- **Disciplined implementation of
regulatory processes**
- **Expanding resource base**

Hiring Strategies

- **Current**
 - **HR and NRR streamlining hiring process**
 - **Balancing entry and full performance level hiring**
 - **Expanding recruitment activity to increase pipeline**
 - **Recruitment Incentives**

Hiring Strategies

- **Future**
 - **Request Direct-Hire Authority from OPM**
 - **Targeted outreach for specific vacancies**
 - **Referral Incentives**
 - **Attrition countermeasures**

Learning Strategies

- **Environment**
- **Training Enhancements**
 - **Tailored curricula**
 - **Expanded delivery systems**

Conclusions

- **COL Applications—Currently projected to be triple the number discussed in April 2005**
- **In anticipation, NRC staff preparing for multiple COL applications in 2008**
 - refining resource requirements
 - strengthening infrastructure
- **NRC resources are limited—high quality applications will reduce uncertainty, improve efficiency**