RIC 2006 – Session T2D

New Reactor Licensing, Preparing for Combined License Reviews

Industry Perspective on New Reactor Licensing Issues

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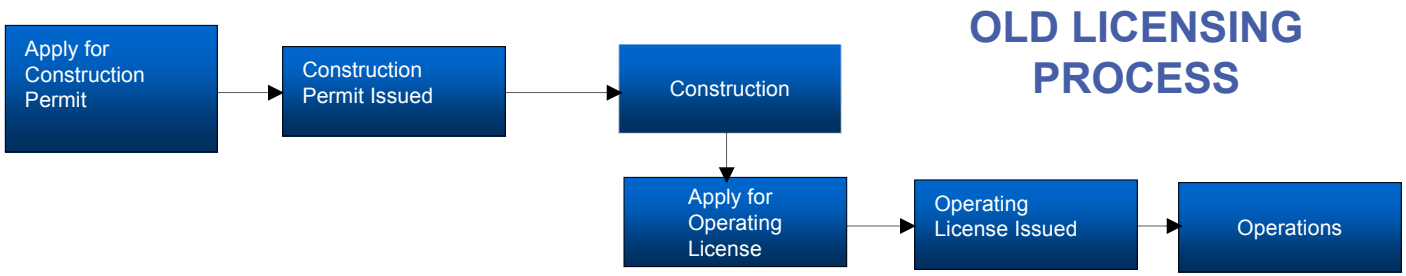
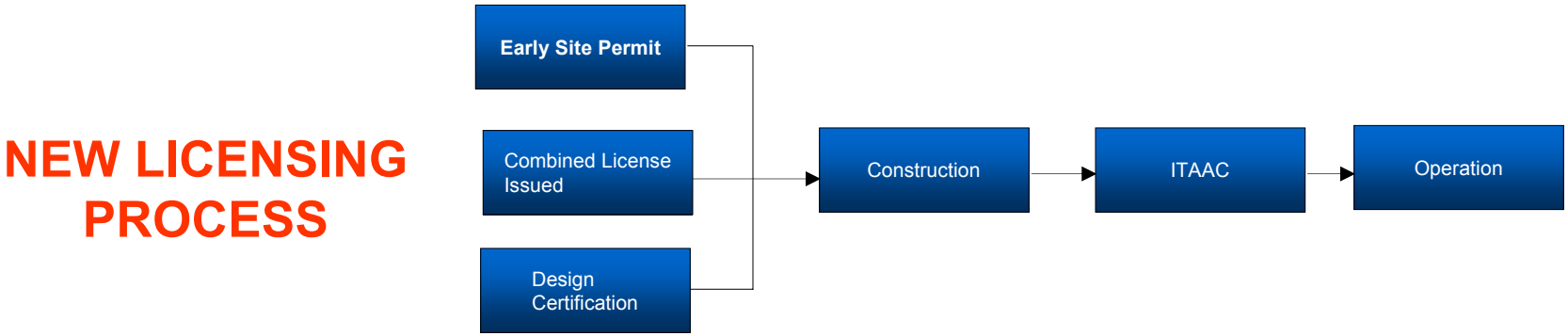
Part 52--Making New Nuclear Possible





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ESP Lessons Learned

- Site safety
  - Good issue resolution
- Emergency preparedness
  - Overly complex for existing unit sites
- Environment
  - Challenging site environmental issues are being identified and resolved
  - ESP process was <u>successful</u> in identifying these issues
- Application to approval: 3 years +

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Dominion's COL Project

- DOE cooperative agreement
- Dominion, GE, Bechtel team
- North Anna site
- GE ESBWR design
- Planning began in early 2004
- COL preparation began in early 2005

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North Anna COL Project

Task 1	Project Management
Task 2	Legal/Financial/Risk Mgmt.
Task 3	COL Application
Task 4	ESBWR Design Certification
Task 5	ESBWR Engineering
Task 6	Site Engineering
Task 7	Deployment Preparation

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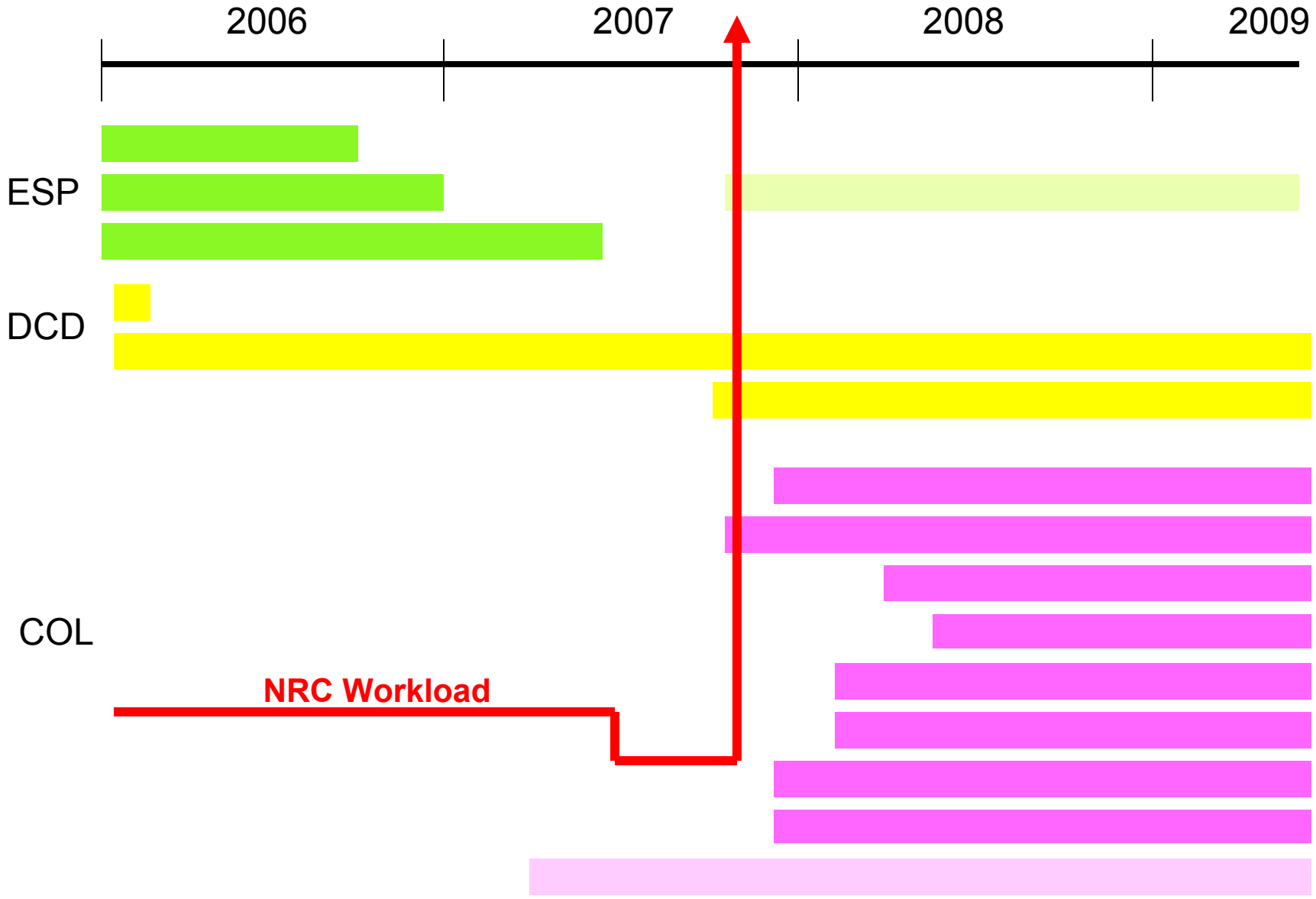
The Crunch!…We Need a New Approach



COL Application Issues

- Commonality/standardization
  - Within a technology…Dominion and NuStart/Entergy already doing it
  - Across technologies…An NPOC priority
- Early NRC interaction
  - Look at possibility of early submittals
  - Level of “approval” and vehicles (topical reports, modules)
  - Efficient use of NRC resources (roll from DCD to COL)
  - Truly integrate NRC and industry schedules
- NRC requirements/guidance
  - Part 52 being revised
  - SRPs and RGs being revised

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Next Steps?

- Identify the most effective and efficient processes and use of our resources…then realign quickly
- Proactively engage NRC at all levels
- Encourage early COL application "module" submittals to the extent practical
- Implement a design-centered approach
- Truly benefit from standardization

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