



RIC 2002
Session W4
Power Uprates

GE BWR Power Uprate Program

Hoa Hoang

Power Uprate Program Manager

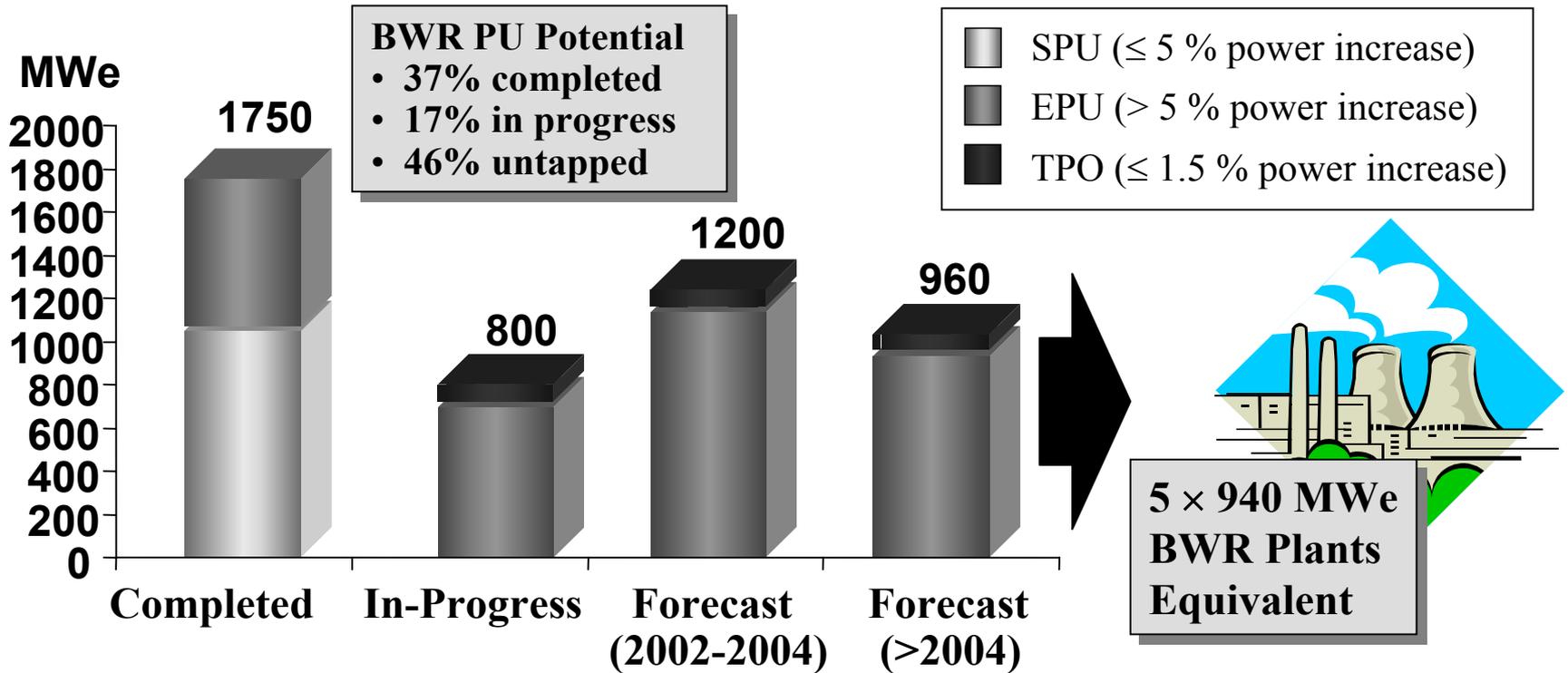
GE Nuclear Energy

March 6, 2002





GE BWR PU MWe Time Line

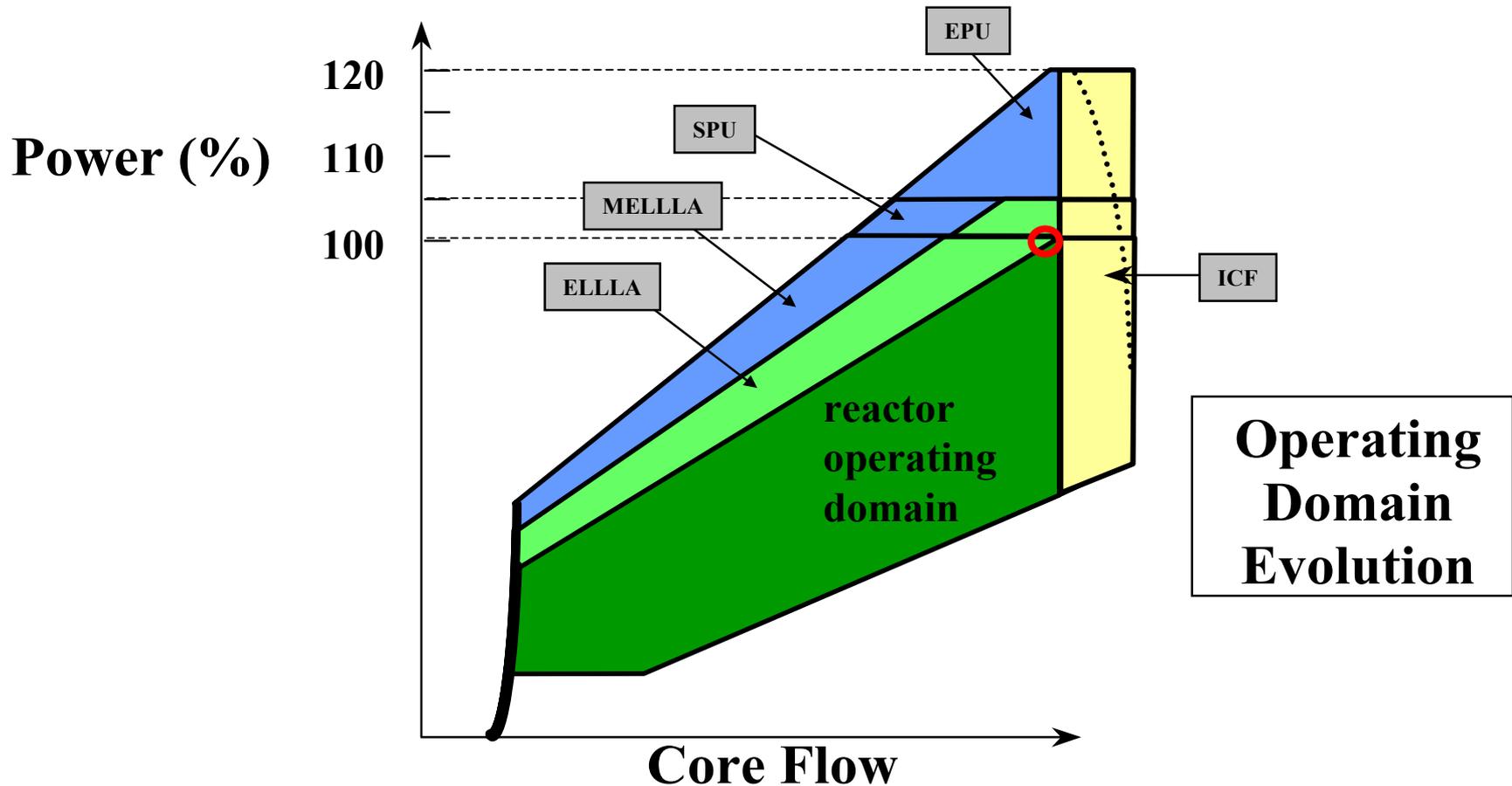


Supports NRC Staff Requirements memo on additional PU

High power uprate volume for NRC review is anticipated



BWR Power Flow Map Extensions



Extract more revenue from inherent plant capability



Extended power uprate

- **Plant licensed power level up to 120% of original rated**
- **NRC approved Extended LTR (ELTR) 3Q 1998**
 - **Generic licensing methodology with some generic dispositions**
- **Constant Pressure Power Uprate LTR (CLTR)**
 - **Introduces simplification and focus into analytical and licensing process**
- **CLTR Rev. 1 submitted to address NRC input - 7/01**

Efficient Licensing and Implementation Process



Licensing and Implementation

- **Licensing Process**
 - **Nominal 12 months for Safety Evaluation Report (SER)**
 - **Nominal 12 months for NRC SER Approval**
- **On-Line Power Uprate Implementation**
 - **License and implement power uprate without increase in maximum operating reactor dome pressure**
 - **Permits initial power increase to existing BOP capacity immediately following receipt of OL amendment**
 - **Subsequent BOP mods to achieve full uprate**



Experience

Completed	Active/Projected
<p><u>Extended Power Uprate:</u></p> <ul style="list-style-type: none">• KKM (114%)• KKL (112%)• Hatch-1,2 (113%)• Monticello (112%)• Duane Arnold (120%)• Dresden -2,3 (117%)• Quad Cities -1,2 (117%)• Cofrentes (110%)	<p><u>105% Power Uprate:</u></p> <ul style="list-style-type: none">• Susquehanna - 1, 2• WNP-2• Limerick - 1, 2• Peach Bottom - 2, 3• Fermi 2• FitzPatrick• Brunswick - 1, 2• NMP-2• Browns Ferry - 2, 3• LaSalle - 1, 2• Laguna Verde• Perry• River Bend <p><u>EPU in Progress:</u></p> <ul style="list-style-type: none">• Brunswick-1,2 (120%)• Clinton (120%)• Browns Ferry-2,3 (120%)