

NRC Public Meeting

Brunswick Nuclear Plant

April 10, 2002



Attachment 1



Unit 1 Performance

- 707 Day Breaker to Breaker Run
 - ▶ LWR Continuous Run World Record
- Refueling Outage Completed in 29 days
 - ▶ Major Extended Power Uprate Modifications Installed Successfully
 - ▶ No Human Performance Events
 - ▶ No Reportable Events
 - ▶ Recordable Accidents and Occupational Dose Lowest Ever



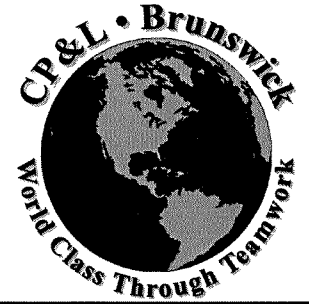
Unit 2 Performance

- Previous Refueling Outage – 32 days
 - Completed 157,000 Hours of Maintenance and Modifications
 - No Human Performance or NRC Reportable Events
 - Outage Standards Met
 - Improved Reliability
 - Increased Production by 4 MWe
- 378 Day Run
- Mid-cycle Safety/Reliability Outage – 04/18/02
 - Scheduled 8 Day Duration



Extended Power Uprate

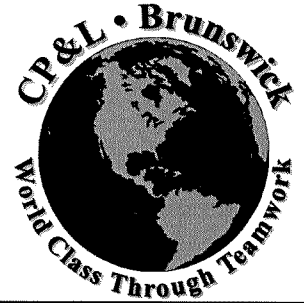
- 15% Power Increase by 2005
- Two Phase Uprate Required
 - ▶ 1st Phase = 7 to 10% Increase
 - ◆ 2002 Unit 1, 2003 Unit 2
 - ▶ 2nd Phase = 5 to 8% Increase
 - ◆ 2004 Unit 1, 2005 Unit 2
- 208 MWe Total Increase Expected



Extended Power Uprate

Phase 1 – Modifications

- Replace High Pressure Turbine
- Modify Electro-Hydraulic Controls (EHC)
- Replace Rx Feed Pump Turbines
- Replace Feedwater Heaters (2)
- Improve Grid Stability
- Improve Generator Isophase Cooling



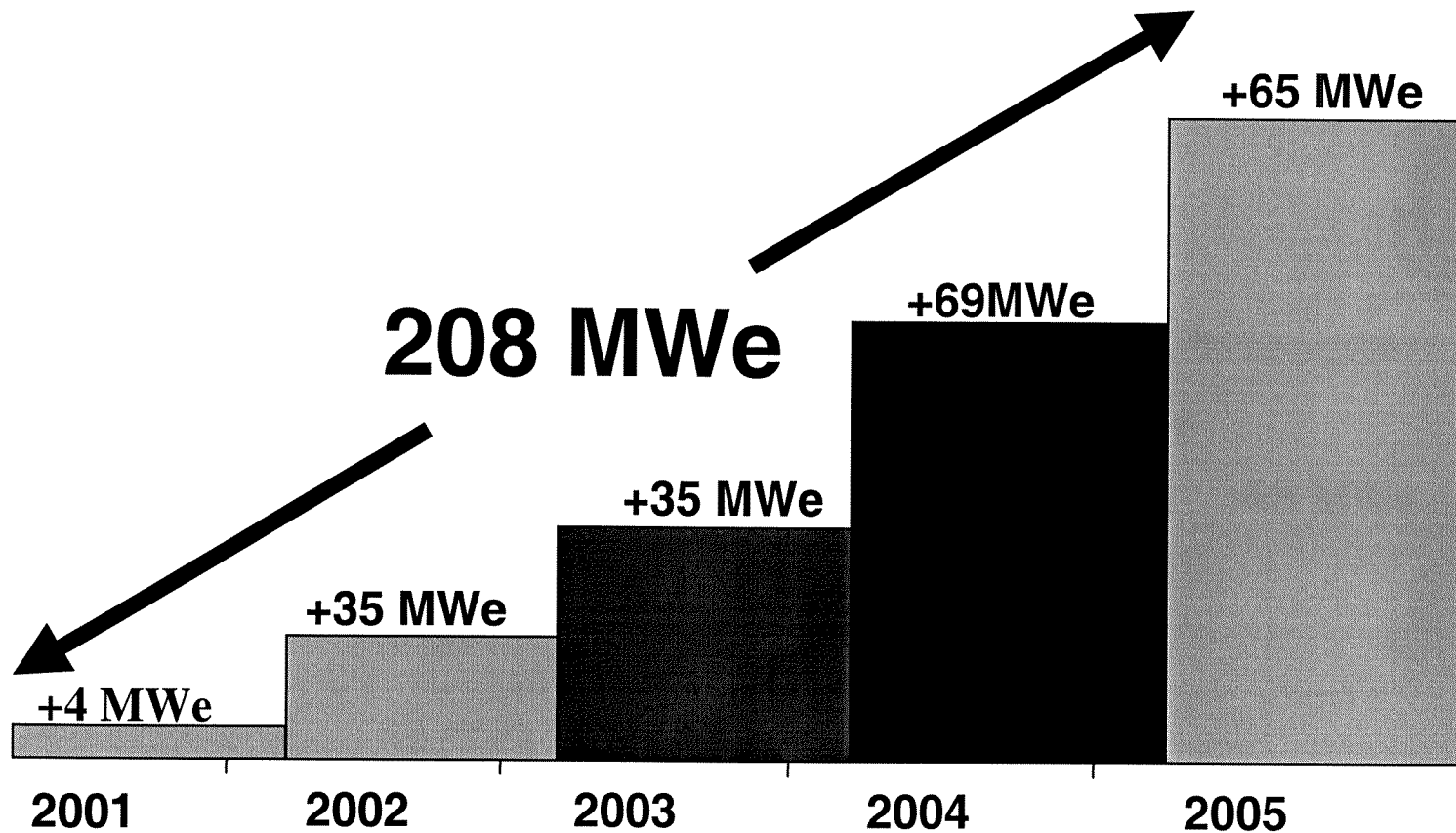
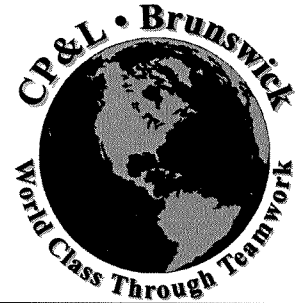
Extended Power Uprate

Phase 2 – Modifications

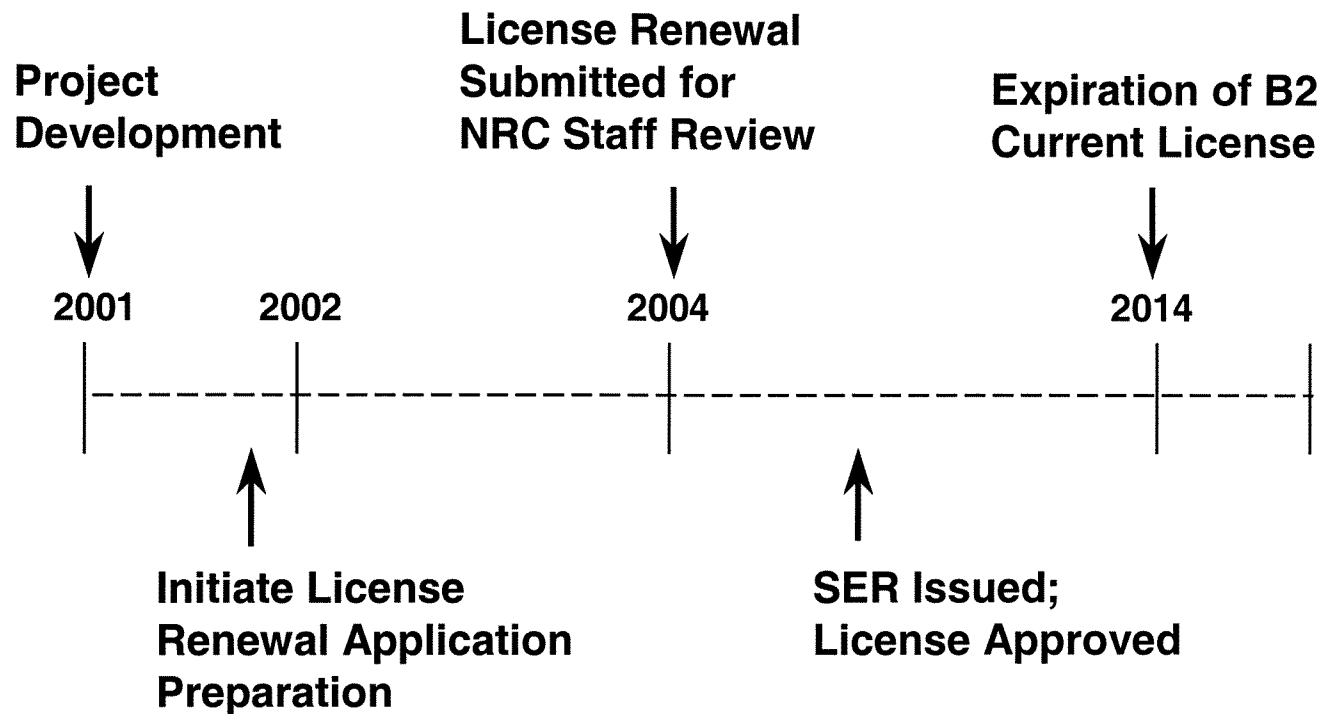
- Replace Main Transformers
- Upgrade Rx Feed Pumps
- Upgrade Condensate Pump & Motor
- Replace Feedwater Heaters (3)
- Upgrade Moisture Separator Reheaters

Extended Power Uprate

Total Power Addition 2001-2005

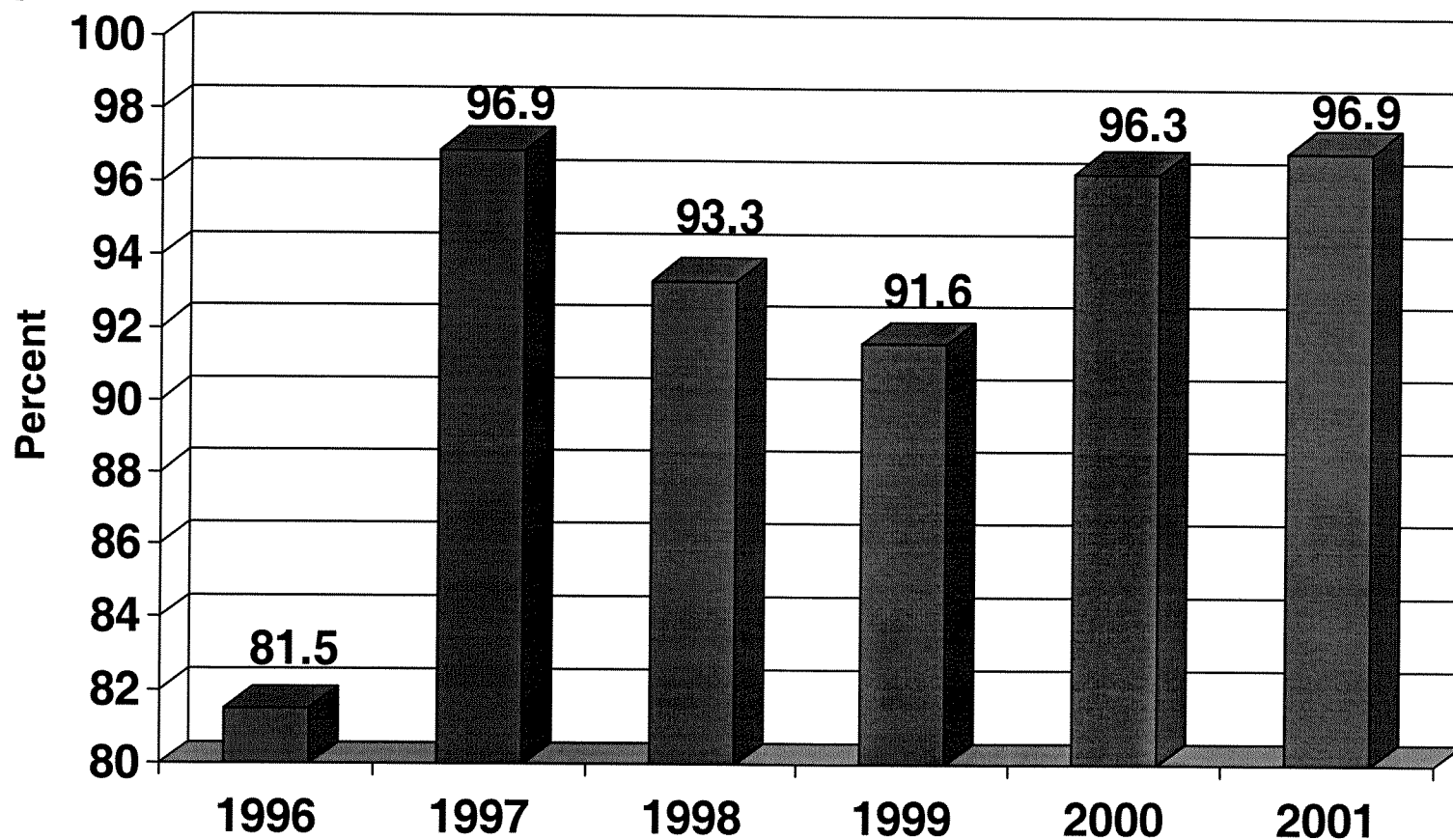


License Renewal



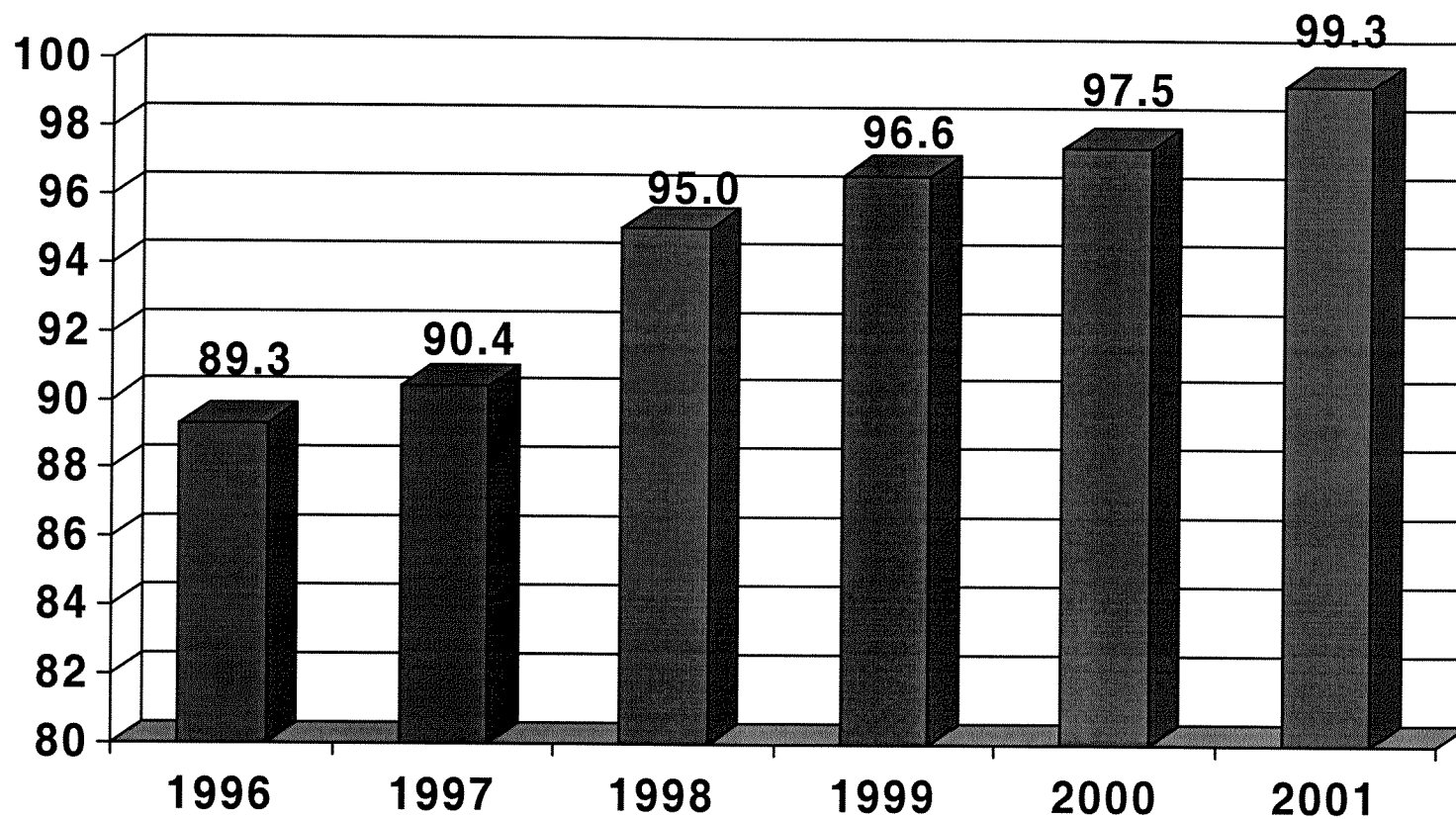


Combined Capacity Factor

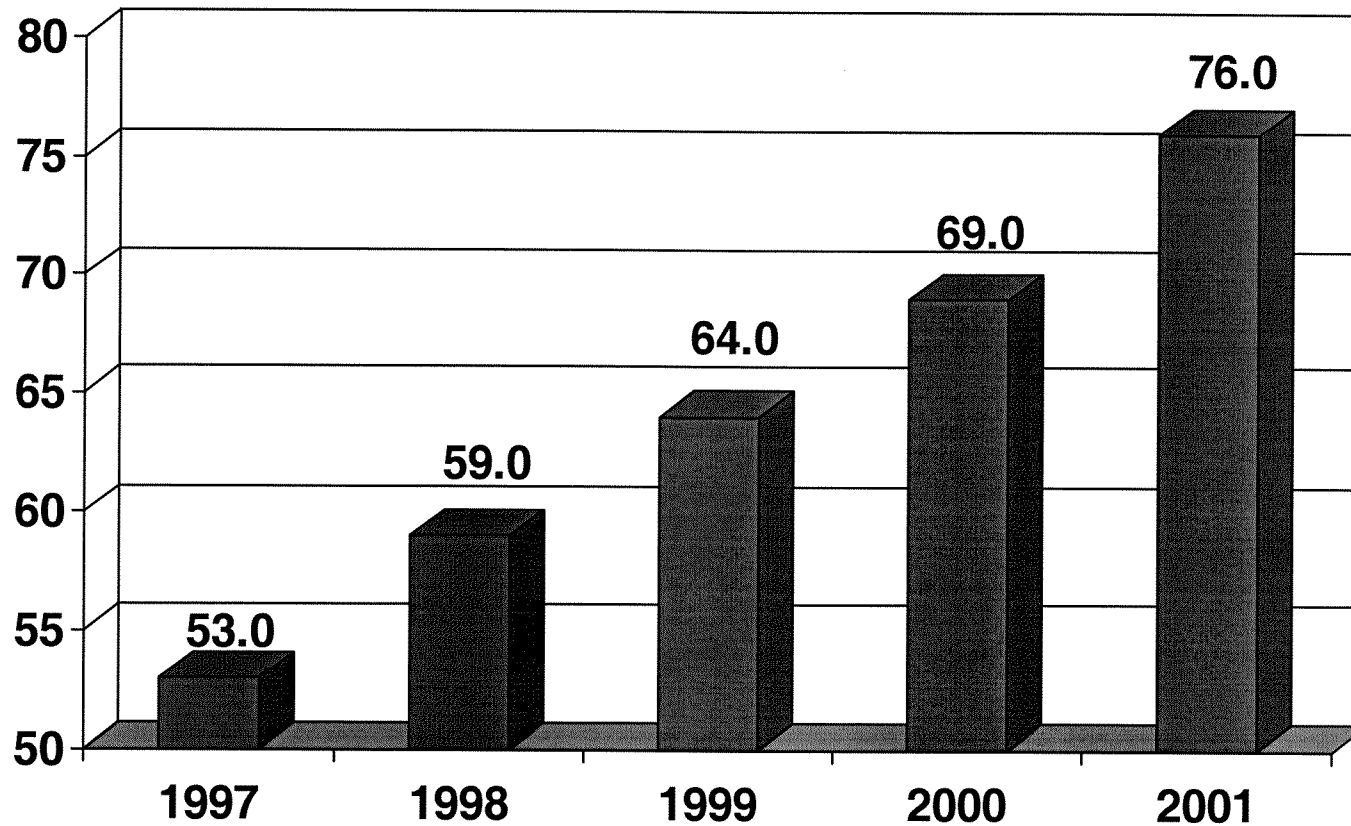




INPO Index



BNP Employee Opinion Survey Results



List of Documents Reviewed

3PP1 And 3PP2

Various Licensee Event Reports and Trending Reports

Key and Lock Daily and Annual Inventory Logs for months July, 2001 and March, 2002

Semi-Annual Fitness for Duty Report, July - December, 2001

Brunswick Nuclear Plant/Carolina Power & Light Company:

Brunswick Physical Security Plan

Plant Access and Radiation Worker Training, GET SSG

Key and Lock Procedure, OSI-01-02

Maintenance and Testing of Security Systems, OSI-12

Vehicular Traffic And Material Access Control, OSI-10

Access Control, Personnel Identification and Badging Procedure, OSI-09

Progress Energy/Carolina Power & Light Company:

Continual Behavior Observation Program, SEC-NGGC-2130

Fitness For Duty Unscheduled Work Call Outs, SEC-NGGC-2141