

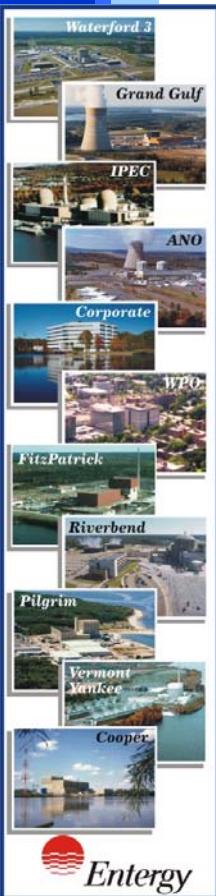
# Entergy Nuclear

Presentation on plans for  
submittal of license renewal applications for

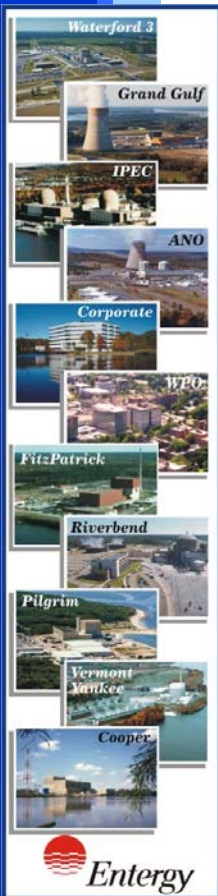
**Pilgrim Nuclear Power Station (PNPS)**

and

**Vermont Yankee Nuclear Power Station (VYNPS)**

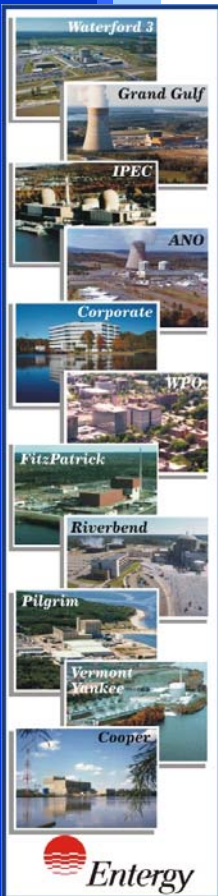


# *Discussion Outline*



- **Schedule for submittal of Pilgrim and Vermont Yankee license renewal applications (LRAs)**
- **Overview of LRA contents and features**
- **Results of comparison to “new” GALL**
- **Options for NRC review schedule**

# ***Schedule for Submittal of LRAs***



## **Pilgrim Nuclear Power Station (PNPS)**

- LRA to be submitted between January 25, 2006 and January 31, 2006\*
- GE-BWR, Mark I containment, 2028 MWt, current operating license expires June 8, 2012

## **Vermont Yankee Nuclear Power Station (VYNPS)**

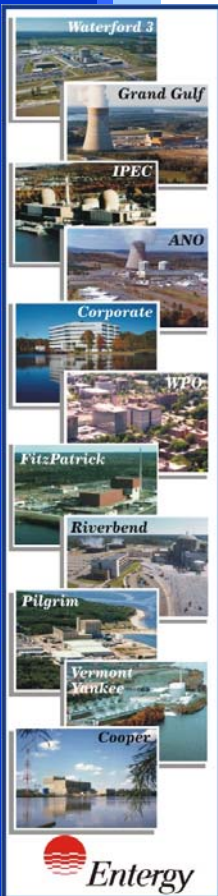
- LRA to be submitted between January 25, 2006 and January 31, 2006\*
- GE-BWR, Mark I containment, 1593 MWt, current operating license expires March 21, 2012

\* Entergy plans to submit both LRAs on the same day

# Overview of LRAs

## General

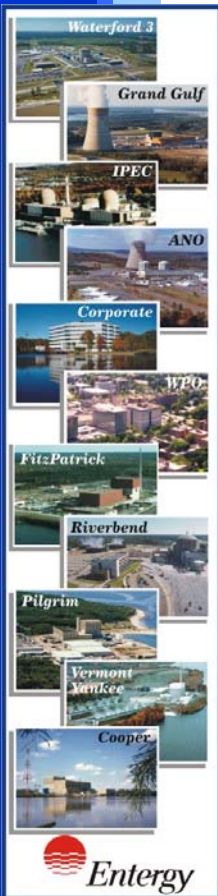
- Format based on NEI 95-10 Rev 6, Regulatory Guide 1.188 Rev. 1 and NUREG-1800 Rev. 1 (Standard Review Plan) – published September 2005
- Aging management review results compared to NUREG-1801 Rev. 1
- Lessons learned from the ANO-2 license renewal review (completed in June 2005) were utilized in the PNPS and VYNPS LRAs



# Overview of LRAs

## General (continued)

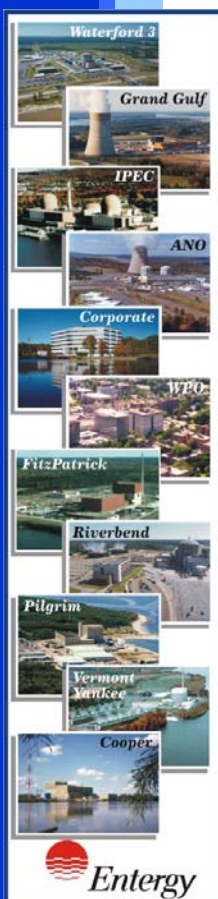
- In LRA preparation, Entergy license renewal team considers experience gained from active participation in NEI and other industry license renewal activities
- Entergy license renewal team factors experience gained from participation in peer reviews of other LRAs into the Entergy LRAs



# Overview of LRAs

## Specific

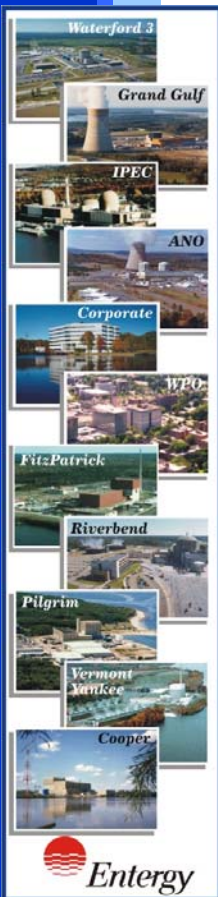
- Same Entergy license renewal team conducted the integrated plant assessment (IPA), the time-limited aging analysis (TLAA) reviews, and the LRA preparation for both sites using the same methods
- PNPS and VYNPS are both GE-BWRs with Mark I containments, similar in design and age (24 years of operation as of 2006)
- Aging management review (AMR) reports are site specific, but similar systems between the two sites have similar AMRs and are formatted the same



# Overview of LRAs

## Specific (continued)

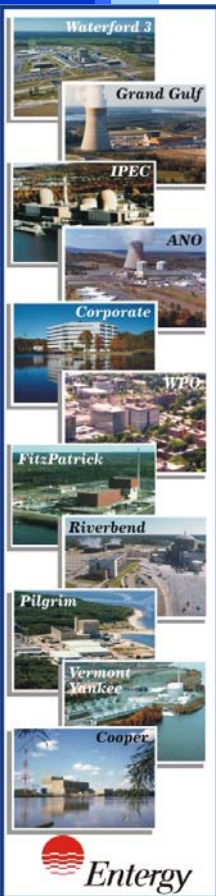
- Majority of aging management programs between PNPS (38 programs) and VYNPS (36 programs) are the same – i.e., 35 are essentially the same



# Results of Comparison to New GALL

## Summary

- Aging management review results and aging management programs were compared to the “new” GALL (NUREG-1801, Rev. 1)
- Consistency with GALL (as indicated by notes A through E) is approximately 86% for both PNPS and VYNPS
- Consistency with GALL for mechanical systems is 88% for PNPS and 89% for VYNPS
- Using “conservative approach” similar to that used for ANO-2, the percent consistent with GALL increased by a factor of almost 3 between GALL Rev. 0 and GALL Rev. 1

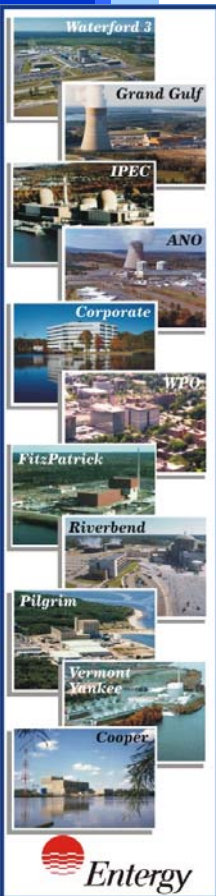




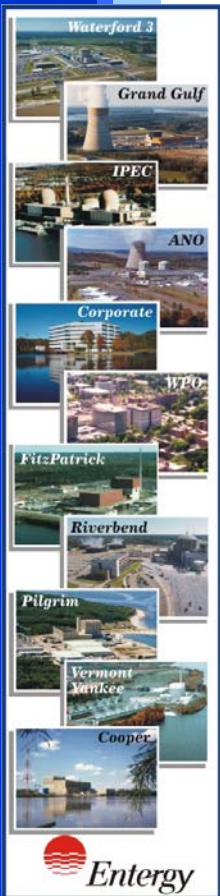
# Results of Comparison to New GALL

## Summary (continued)

- Greater than 95% of the AMR results are either explicitly consistent with GALL or are consistent with NRC approved AMR results (past precedent)
  - Most of the differences are due to material/environment/aging effect combinations that were not listed in NUREG-1801, but have been previously reviewed and approved by the NRC
  - ESF section is 90% consistent with GALL, but the percentage rises to >98% when including past precedent material/environment/aging effect combinations
  - Steam & power conversion section is 90% consistent with GALL, but when including past precedent material/environment/aging effect combinations, the percentage is 100%

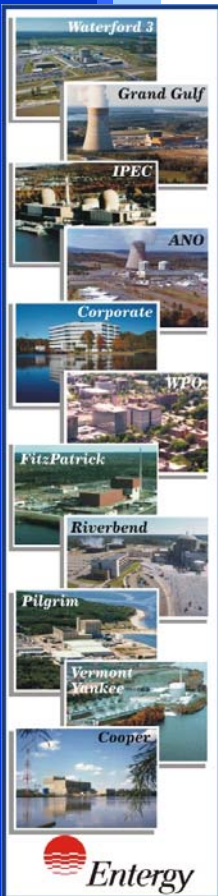


# Options for NRC Review Schedule



- **Entergy requests that NRC utilize one review team for both the PNPS and VYNPS LRA reviews with the goal of achieving greater review efficiency for both NRC and Entergy personnel**
- **Similar to NRC approach for previous multi-site LRAs and for dissimilar unit reviews at a single site** (e.g., Dresden/Quad Cities, Surry/North Anna, McGuire/Catawba, Millstone )
- **Entergy has prepared the LRA content (and supporting documents) to facilitate the review by one NRC team**
- **Entergy will work with the NRC to establish a review schedule that will accommodate any difficulties associated with using one review team (e.g., on-site audit activities)**

# Conclusion



- **PNPS and VYNPS LRAs are planned to be submitted to NRC between January 25 and January 31, 2006**
- **Entergy requests that NRC utilize the same team to review both the PNPS LRA and VYNPS LRA**
- **Entergy will work with the NRC to establish an overall review schedule to accommodate any scheduling difficulties associated with using one review team (e.g., on-site audit activities)**