



**Initial Meeting with NRC  
Bellefonte Project  
February 7, 2006**

## Meeting Agenda

- **Project Overview Information**
  - NuStart Bellefonte Project
  - NuStart Organization
  - Bellefonte site: Overview
- **Pre-Application Discussion**
  - Technology-specific activities and discussion
  - Topics anticipated in later pre-application discussions
  - NRC Support
- **Project-Specific Information**
  - Site Characterization Topics
  - Bellefonte Site Environmental Review
- **Wrap-up and Action Items**

## Meeting Objectives

- **Introduce the NuStart Bellefonte project**
  - Overview
- **Discuss pre-application interaction needs**
  - Identify Applicant and NRC activities
  - Understand purpose and processes
  - Agree on framework for future discussions
- **Identify NRC preparations and organization to support Bellefonte Project**
- **Provide specific site information & schedule of activities**

## Bellefonte Project Overview

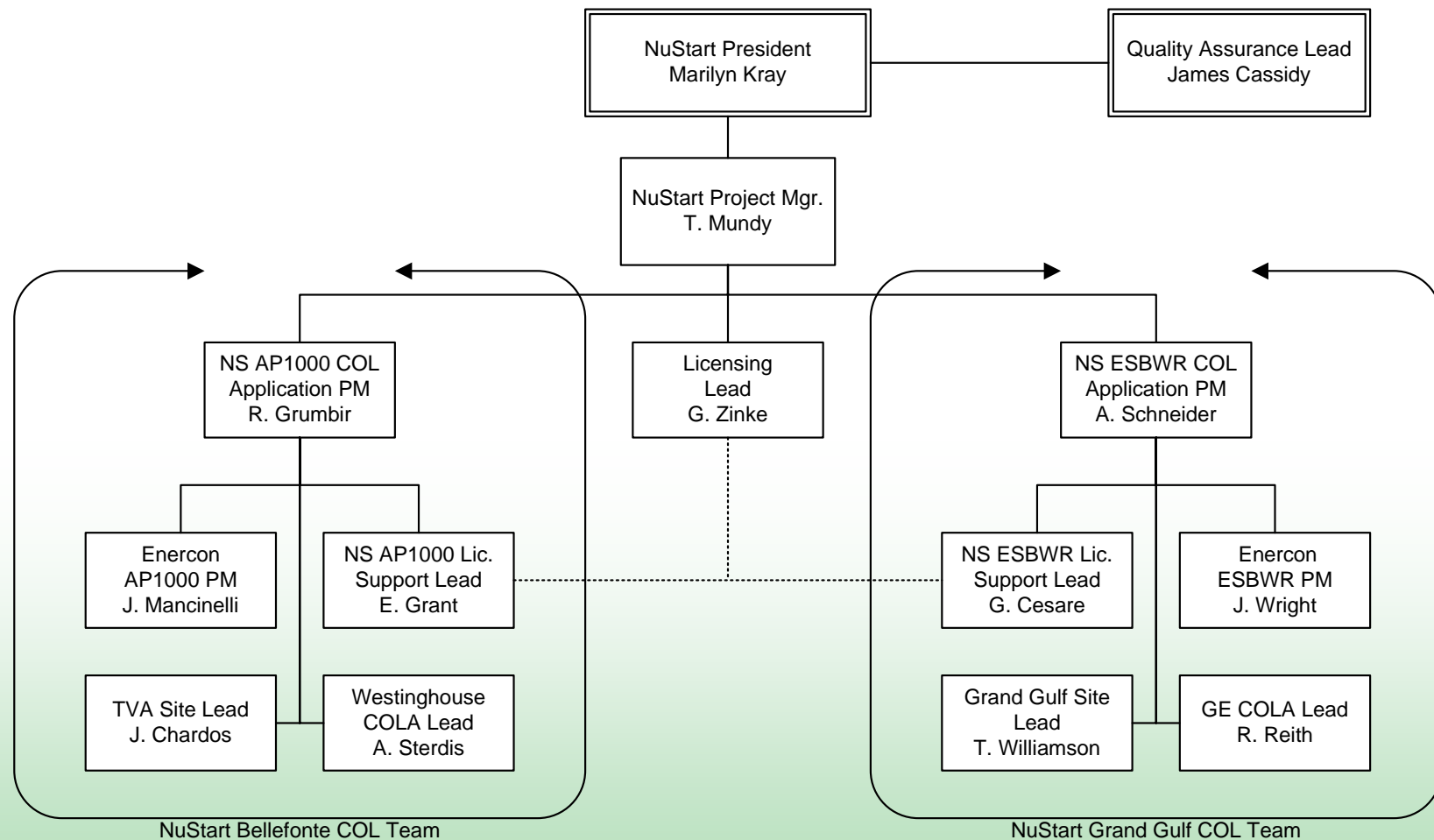
- **NuStart Project**
  - DOE-supported under cooperative agreement
- **Bellefonte site selected**
  - TVA owned; no operating units
  - No Early Site Permit
  - Existing Construction Permit (for 2 B&W units)
- **COLA Based on**
  - AP1000 Technology
    - Westinghouse certified design
  - Application for two units
- **COLA submittal target**
  - Fourth Quarter 2007

# NuStart Project Organization

## NuStart

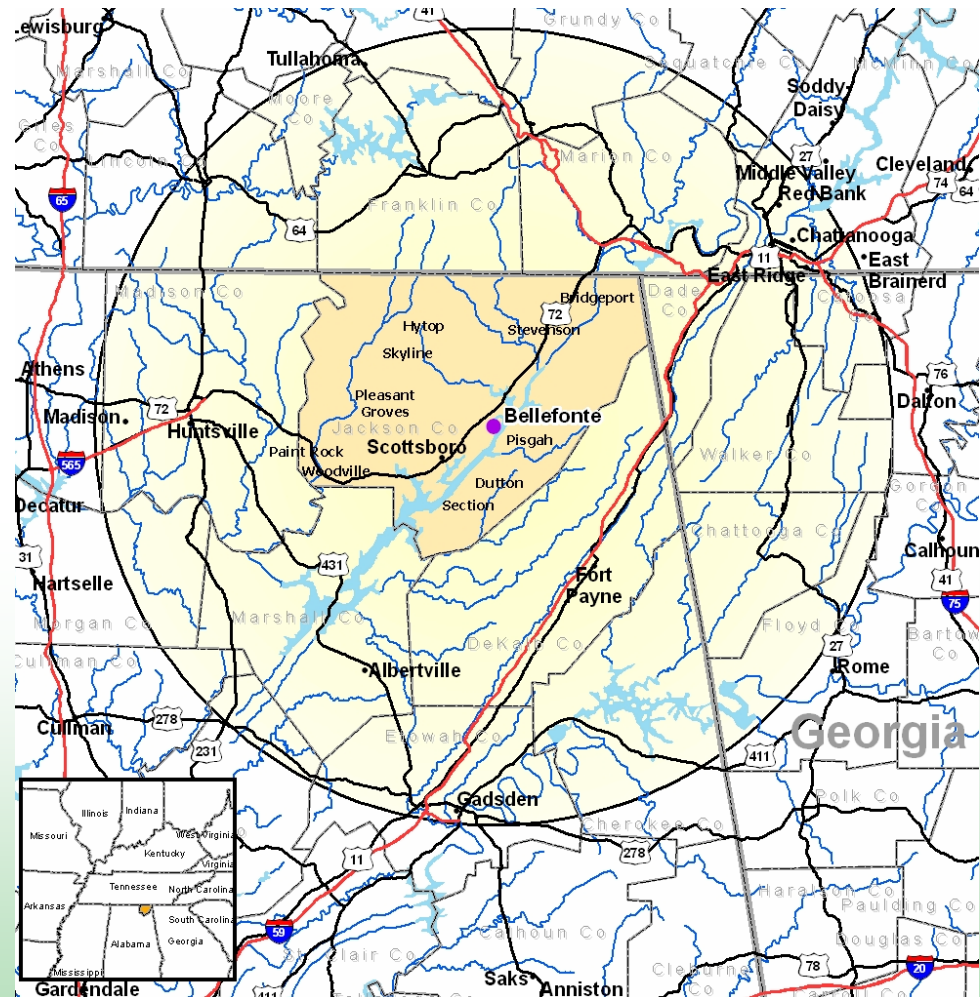
- **Primary Contacts identified in letter dated November 17, 2005 (ML053270434)**
- **Other Key Project Participants**
  - Westinghouse
  - TVA
  - Southern Company (MOU with TVA)
  - Enercon Services and key subcontractors:
    - Burns & Roe
    - Williams Lettis & Associates
    - MACTEC

# NuStart Project Organization



## Bellefonte Site Overview

- 50 mile radius
- NE Alabama
- Tennessee River
- Near Scottsboro, AL
- Between:
  - Huntsville, AL
  - Chattanooga, TN



## Bellefonte Site Overview

- 10 mile radius
- NE Alabama
- Scottsboro, AL
- Tennessee River
- Guntersville Lake





## Bellefonte Site Overview



## Bellefonte Site Overview



## Bellefonte Site Overview

- **Use of some Bellefonte existing structures probable**
  - Cooling towers
  - Intake structure
  - Switchyard
  - Tower (with new meteorological instruments)
  - Other misc. structures (machine shop, storage, etc.)
- **Status of TVA site activities**
  - Bellefonte Construction Permit (CP) Docket Nos. 50-438 & 50-439
    - TVA has notified NRC of intent to request CP termination

## **NRC Pre-Application Discussion Topics**

- **Design-Centered Review Approach**
  - ML0535300200 (December 13, 2005)
- **NRC/Combined License Applicant Pre-Application Interactions**
  - ML053360496 (December 2, 2005)
- **Generic Topic Workshops**
- **Other Potential Topics**

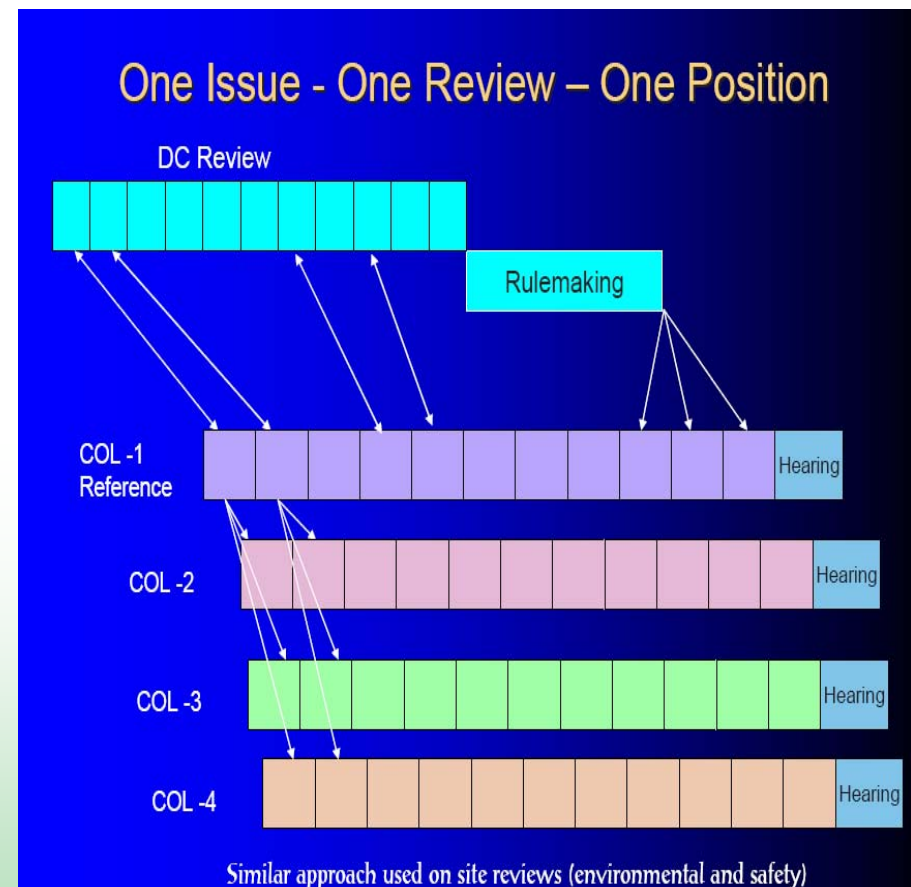


## NRC Pre-Application Discussion Topics (cont'd)

### ■ NPOC – NRC Dec 13

**Meeting** (ADAMS ML0535300200)

- As presented by NRC (at right)
- Keys to Success
  - One Issue, One Review, One Position
  - Early Resolution of Issues
  - Standardized Approach



## NRC Pre-Application Discussion Topics (cont'd)

- **Implementing “Standard” Concept for the Bellefonte COL Application**
  - Goal is to achieve resource savings (NRC and Industry)
  - Standard content options
    - Format (level of detail)
    - Common sections for specific reactor technology (AP1000)
    - Common sections for all reactor technologies
    - Applicant/site-specific sections
    - Methodology

## NRC Pre-Application Discussion Topics (cont'd)

- **Standardization (continued)**

- Guidance

- DG-1145 (COL Applications for Nuclear Power Plants)
    - NEI-04-01
    - NUREG-0800 (SRP sections)
    - NUREG-1555

- Approval method options

- Topical SER, endorsement (by RG), rulemaking, previous COL/SER, etc.

- Reference method options

- Reference, incorporate by reference, repeat text, etc.

- Achieving finality

## **NRC Pre-Application Discussion Topics** (cont'd)

(Based on NRC list provided on December 2, 2005 - ML053360496)

- **Potential Deviations from Certified Design**
- **DAC Completion Process and Schedules**
  - e.g., Control room design
- **COL Action Item Resolutions**
  - NRC criteria
  - Benefits
- **ESP Compliance (Not Applicable; No ESP)**
- **Proposed Regulation Exemptions**
- **Potential Policy Issues**



## **NRC Pre-Application Discussion Topics** (cont'd)

- **Deviations from Staff guidance**
  - Criteria
- **Fabrication Schedule**
- **Site Characterization Activities Schedule**
  - (*See latter portion of presentation*)
- **Plans for LWA**
- **Interfacing with Other Regulatory Agencies**
  - Emergency Planning
  - Environmental Activities
  - Permitting
  - Other

## NRC Pre-Application Discussion Topics (cont'd)

- **Quality Assurance Plans**
  - QA for COLA preparation - ~1 month
    - Submittal mechanism
  - Design and Construction QA (with COLA or Topical Report)
  - Operations QA (with COLA or Topical Report)
- **Relationship with Other Licensing Activities**
  - Not Applicable – No existing applications
- **Environmental Topics**
  - NRC to identify
  - Schedule
- **Other?**

## Other Pre-Application Discussion Topics

- **Environmental Report**
  - Ecological studies (onsite habitat review)
- **Site Interface Issues**
  - Seismic
  - Other
- **DG-1145**
  - Draft Table of Contents
  - Workshops
- **Standard Review Plan Revision**
  - Evaluate SRP in effect 6 mo. prior to docketing COLA
    - 50.34(h) cutoff is second quarter 2007
  - Schedule Impact on “Quality” – many late for consideration
- **NRC Acceptance Review Checklist**

## Other Pre-Application Discussion Topics (cont'd)

- **Proposed Rulemaking to Revise Part 52**
  - Workshop scheduled
- **Part 52 Appendix D Final Rule Clarifications**
  - Incorporation by reference (DCD)
  - “Include” vs “Physically Include”
- **Materials Anticipated to be Requested**
- **NRC Positions Not Documented in Guidance**
- **COL Application Section Content**
- **Expectations for Timely Mutual Communication**

## Bellefonte Site Activities

- **Near term activities**
  - Geotechnical subsurface characterization
    - Well placement, borings and soundings
      - Late March through June 2006
  - Meteorological data
    - Existing tower being fitted with meteorological instruments
    - One year per RS-002 (beginning ~ May)

## Bellefonte Environmental Reviews

- **COLA Environmental Report Basis**
  - Utilize
    - Previous environmental evaluations
    - Previous reviews (e.g., EIS for CP)
  - Update previous information (where necessary)
  - Perform additional evaluations
    - As necessary to meet current guidance
- **TVA Environmental Impact Statement**
  - Required by regulations
  - Possible “tiering” with NRC EIS and/or other federal agencies (e.g., FERC)

## Other Interaction Needs - NRC Activities

- **Principal Contacts and Project Manager assignment**
- **Site Visits**
  - Other near term
- **Inspections**
  - Subject areas
  - Timing
- **Public Meeting (near site)**
  - Topics
  - Coordination with NuStart
  - When and Where

## Summary

- **General Project Overview**
- **Future Interactions**
  - Dates
  - Topics
- **Activity schedule (near term)**
  - Site characterization
  - NRC visits & inspections
- **Actions**