



# AmerenUE

Combined Operating License  
Application (COLA)

NRC C-2/C-3 Readiness  
Assessment Visit

April 1 through April 3, 2008



## Introductions/Opening Remarks

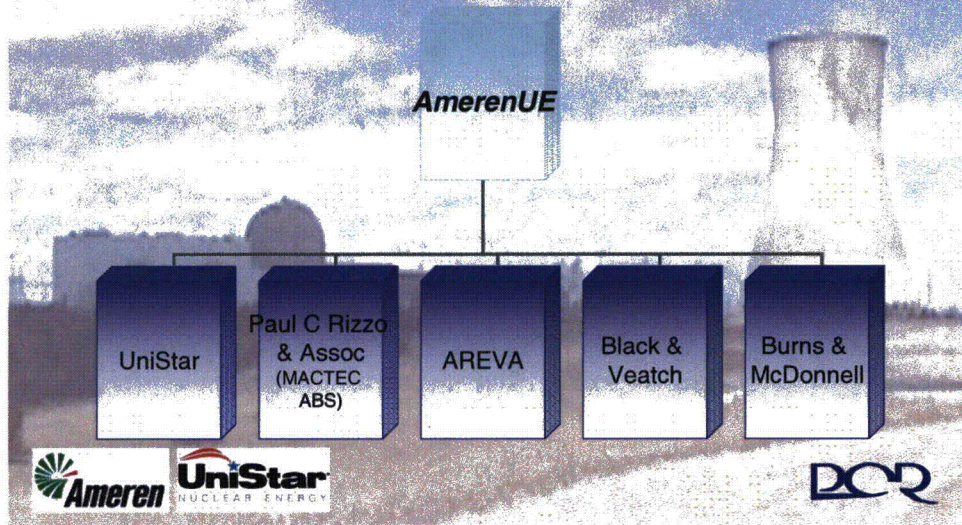
Scott Bond  
Manager, Nuclear Generation  
Development  
AmerenUE





# Organization

## Applicant and Contractor Organizational Structure



## Team Member Introductions

AmerenUE	<b>New Generation Development Personnel:</b> <b>Scott Bond</b> , Manager, Nuclear Generation Development <b>Ron Lamb</b> , Manager, Operations and Maintenance <b>Pat Cryderman</b> , Assistant Manager, Engineering <b>Tom Grothe</b> , Consulting Engineer, Civil <b>Travis Hart</b> , Associate Engineer, Electrical <b>Bruce Huhmann</b> , Supervisor Engr, Mechanical <b>Paula Johnson</b> , Records Management Supervisor <b>Rich Lutz</b> , Principal Engineer, Mechanical <b>Steve Meyer</b> , Supervising Engineer, QA <b>Rick Rice</b> , Supervising Engineer, Civil <b>Dave Shafer</b> , Assistant Manager Licensing <b>Dave Waller</b> , Supervising Engineer, Electrical & I&C <b>Roger Wink</b> , Supervising Engineer, Licensing
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## Team Member Introductions

AmerenUE	<b>Corporate Resource Planning:</b> <b>Ajay Arora</b> , Director, Corporate Planning <b>Mike Whitmore</b> , Managing Supervisor <b>Steve Wills</b> , Managing Supervisor  <b>Callaway Unit 1</b> <b>Kip Barbour</b> , System Engineer, Meteorological <b>Brian Holderness</b> , Senior Health Physicist <b>Harold Osborn</b> , Consulting Health Physicist  <b>Licensing Consultants</b> <b>Peter LeRoy</b> <b>Al Passwater</b> <b>Neal Slaten</b>
UniStar	<b>John Tynan</b> , Callaway Unit 2 Project Manager <b>Steve Strout</b> , Licensing Consultant <b>George Wrobel</b> , Licensing Manager <b>Jim Freels</b> , Licensing Consultant



## Team Member Introductions

RIZZO	<b>Mel Koleber</b> , Project Manager <b>Melissa Dubinsky</b> , ER Manager <b>Lori Gross</b> , Groundwater Hydrology <b>Fehmida Mesania</b> , Surface Water Hydrology <b>Cliff Merchant</b> , Alternate Sites <b>Jessica Friedman</b> , Need for Power <b>Bob Halden</b> , Assistant ER Manager
Subcontractors	<b>Steve Stumne</b> (MACTEC), Ecology <b>Bill Elzinga</b> (MACTEC), Ecology <b>Sam McCord</b> (MACTEC), Aquatics <b>Mark Abrams</b> (ABS), Meteorology (by telecon if necessary) <b>Jason Eichenberger</b> (Burns & McDonnell)
AREVA NP (by telecon if necessary)	<b>Rick Williamson</b> , Project Manager <b>Josh Reinert</b> , PRA <b>Pedro Perez</b> , Modeling





# NRC/PNNL Introductions

March 31, 2008

Topic	Representatives				Breakout Rooms
	Ameren / UniStar	Contractor Support	PNNL Staff	NRC Staff	
Licensing Leads	Dave Shaller Peter LaRoy Roger Wink Steve Strout George Virel Jim Frests	Melissa Dubinsky Mel Koberer (RIZZO)	Mike Sackschewsky	Andy Kugler	N/A
Group 1 Terrestrial and Aquatic Ecology	Brian Holderness Steve Strout	Bill Edwards Sam McCord Steve Summers Robert Hays (RIZZO/MAC 112) Lori Orsini Fehrida Mesania (RIZZO)	Jeff Ward (aquatic) Bob Fellows (terrestrial) Hinda Sather (aquatic shadow)	Nancy Kuntzman	CPF 117
Group 2 Hydrology / Water Use	Rick Rice Rich Lutz Peter Leroy	Jason Eichenberger (Burns & McDonnell)	Mike Fayer	Elaine Rodriguez	CPF 118
Group 3 Health Physics / Uranium Fuel Cycle Accidents	Neal Stetten Tom Orothe George Virel	Mark Abrams Pedro Perez		Bruce Olson (Mot/Air) Andy Kugler (Accidents)	CMB 213
Group 4 Socioeconomics Environmental Justice Cost-Benefit Analysis	Jim Frests Bruce Huhmann	Melissa Dubinsky (RIZZO)	Tom Secrest	Paul Kellan	CMB 122
Group 5 Land Use/Transmission Alternatives (Site, Cooling Systems, Generation) Need for Power	Dave Waller Roger Wink Al Pasewater Mike Whitmore	Mel Koberer Jessica Friedman (RIZZO)	Dave Anderson Donna Hestick (shadow)	Bruce Olson (Land/Transmission) Andy Kugler (Alternatives, Need for Power)	CMB 215



## Schedule Overview

- **Tuesday April 1, 2008 (C3)**
  - 0800-0830 Welcome & Introduction – Callaway Unit 2 overview presentation.
  - 0830-0900 Breakout session – individual presentations.
  - 0900-1200 Review documents, discussion, field trips if necessary.
  - 1200-1230 Lunch
  - 1230-1600 Review documents, discussion
  - 1600-1630 NRC/PNNL personnel internal discussions and reporting.
  - 1630-1700 NRC/PNNL outbriefing with Callaway personnel.





## Schedule Overview

- **Wednesday April 2, 2008 (C3)**

- 0800-1200 Resume documents review, discussion.
- 1000-1100 [if needed, AREVA personnel standing by for SAMDA/PRA questions]
- 1200-1230 Lunch
- 1230-1315 NRC/PNNL personnel internal discussions and reporting.
- 1315-1400 NRC/PNNL briefing with Callaway personnel.



## Schedule Overview

- **Wednesday April 2, 2008 continued (C2)**

- 1400-1600 Travel to Chamois (alternate site).
- 1600-1700 Review Chamois site.
- 1700-1830 Travel to Columbia/Moberly.





## Schedule Overview

### – Thursday April 3, 2008 (C2)

- 0800-0900 Travel to Thomas Hill (alternate site)
- 0900-1030 Review Thomas Hill site
- 1030-1300 Travel to Quarry site (near Louisiana, MO) and lunch
- 1300-1430 Review Quarry (alternate site)
- 1430-1500 Wrap-up discussions
- 1500-1630 Travel to St. Louis Airport



## Tentative Major Activity Milestone Dates

- The following major activities are scheduled:
- Order Forgings for Reactor Vessel and NSSS Components May 2007✓
- Submit Design Certification Application for the U.S. EPR December 2007✓
- Reference COLA Submittal March 14, 2008✓
- RIS 2008-01 Notification of Applicant Submission Date April 14, 2008
- Submit COL Application for Callaway Plant Unit 2 (tentative) June 30, 2008
- NRC Issues Design Certification for U.S. EPR October 2010
- NRC Issues COL October 2011
- Plant Construction Starts April 2012
- Construction Complete June 2017
- Plant Startup Testing Begins June 2017
- Commercial Operation December 2017





# Environmental Report

- ER Sections on schedule to support 6/30/08 submittal
- ER 1.0 Introduction
- ER 2.0 Environmental Description
- ER 3.0 Plant Description
- ER 4.0 Environmental Impacts of Construction
- ER 5.0 Environmental Impacts of Station Operation
- ER 6.0 Environmental Measurements and Monitoring Programs
- ER 7.0 Environmental Impacts of Postulated Accidents Involving Radioactive Materials
- ER 8.0 Need for Power
- ER 9.0 Alternatives to the Proposed Action
- ER 10.0 Environmental Consequences of the Proposed Action



## Major Items from August 23-24, 2007 Environmental Staff Readiness Assessment Visit

- Alternative Sites Analysis
  - Alternate sites that have been considered
    - Generic greenfield site evaluated
    - Chamois Generating Station Brownfield Site
    - Thomas Hill Generating Station Brownfield Site
    - Fred Weber Quarry Brownfield Site
    - **Callaway NPP Site**
- Need for Power
  - Integrated Resource Plan issued by Ameren Feb, 2008
  - ER chapter 8 incorporated applicable parts of IRP





