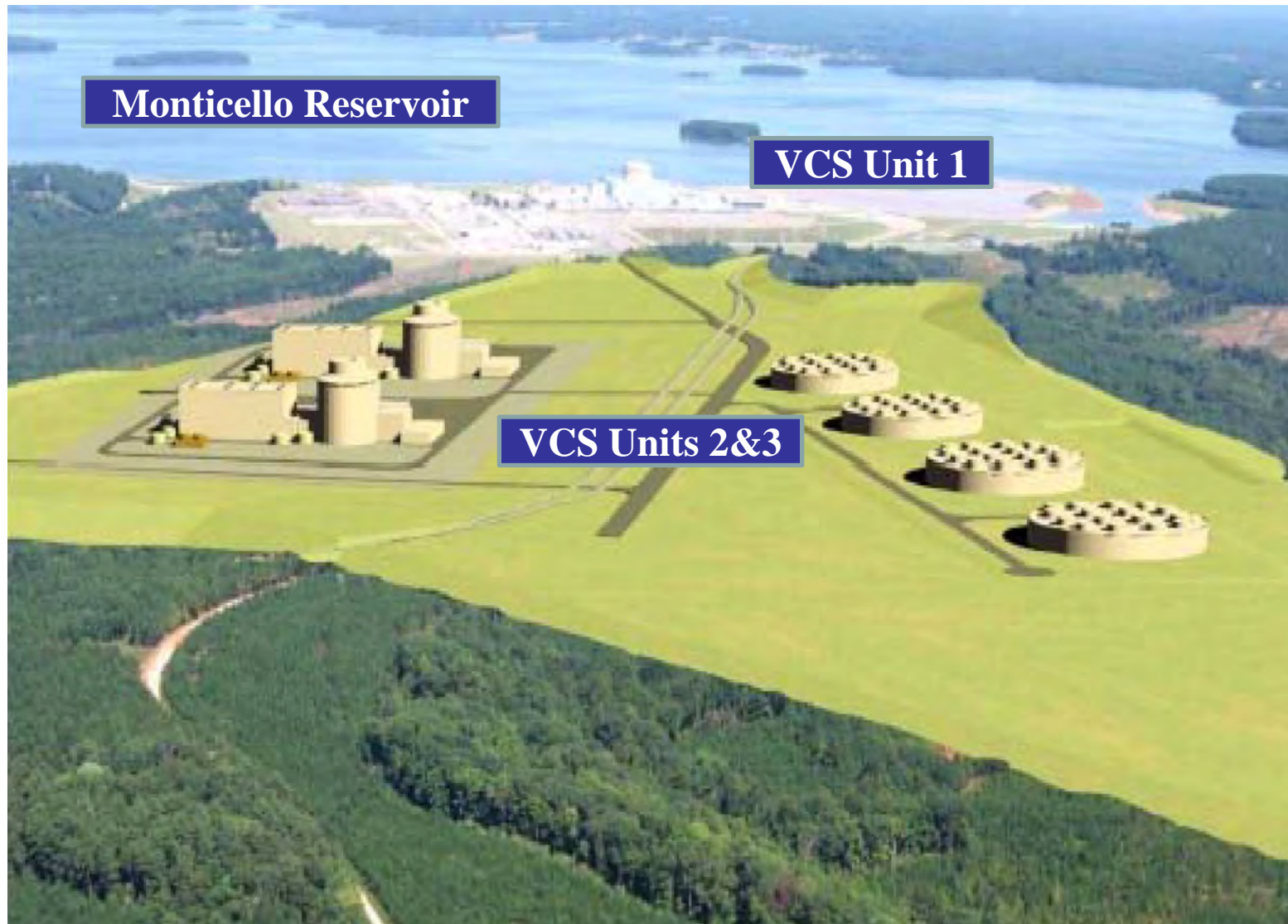
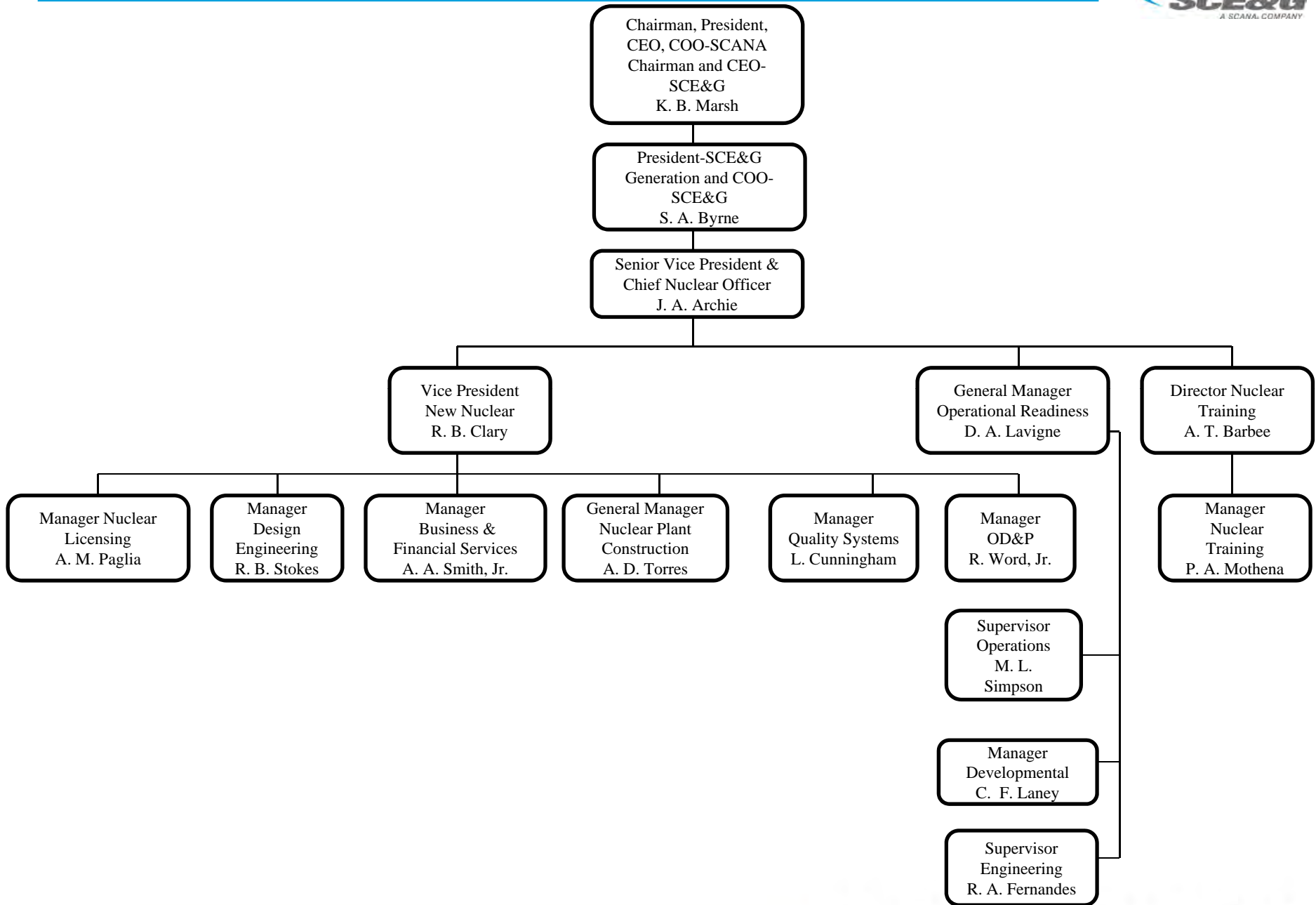


VCSNS Site

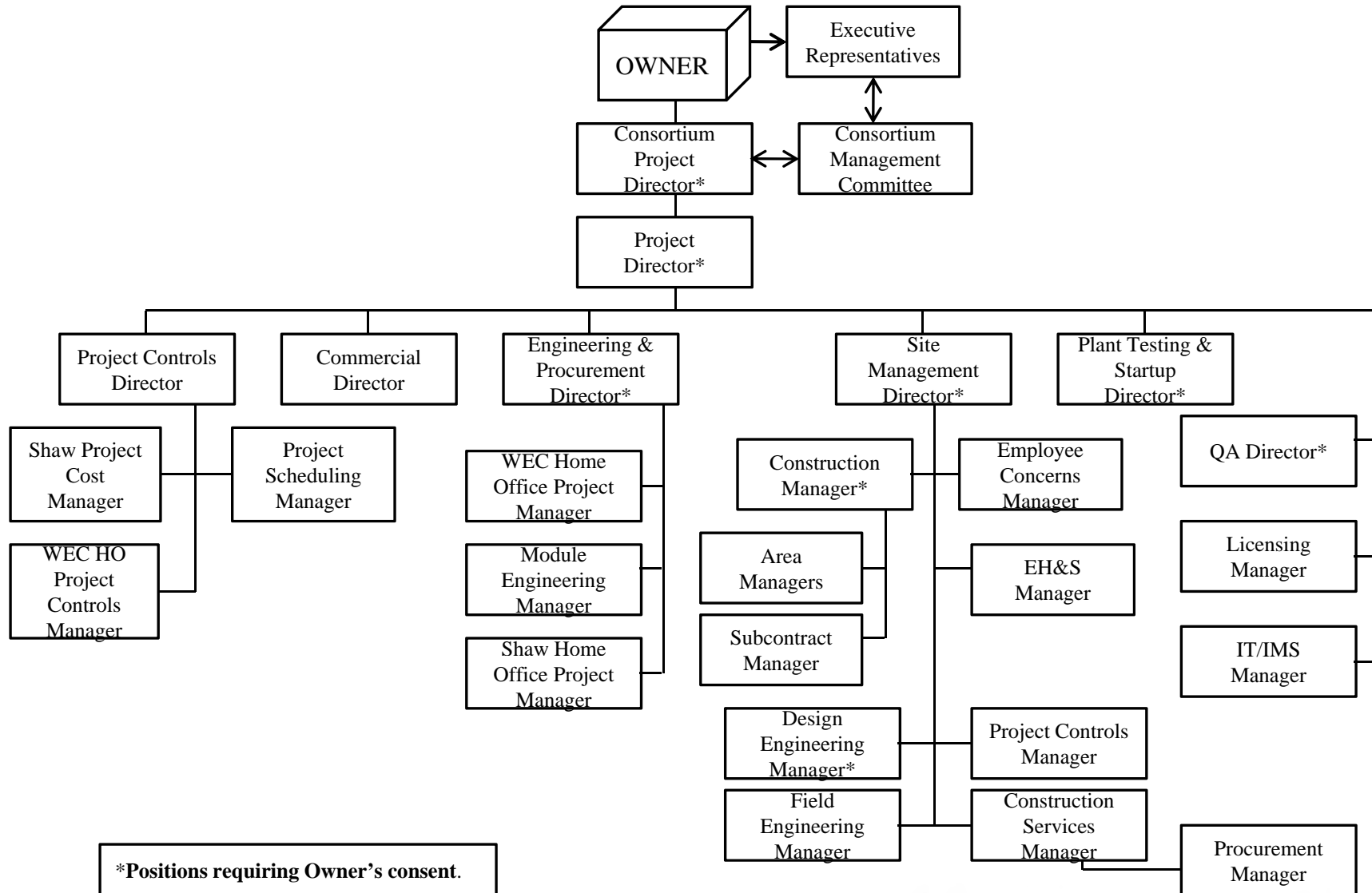


AGENDA

- Introductions
- Organization
- COL Readiness
- ITAAC overview
- Contractor Oversight
- Construction Experience
- Switchyard
- Project Status & Photos
- Operational Readiness



Contractor Organization



COL Readiness Assessments

- SCE&G and the consortium completed separate COL Readiness Assessments
- The Assessments Were Multi-Week Efforts, Involving Large Teams and Use of Site Personnel, Off-Site Westinghouse /Shaw Personnel, and Industry Peers
- The Assessments Overlapped , but Each Reviewed Readiness From a Different Perspective
- Assessment results have been integrated for future actions

COL Readiness Assessments

- Both Assessments Reviewed:
 - Corrective Action Program
 - Quality Assurance
 - 10 CFR Part 21 and 10 CFR 50.55(e)
 - Security / Fitness for Duty
 - Readiness to Support NRC Inspection Activities
 - ITAAC Processes
 - Configuration Control
 - Training and Qualification

COL Readiness Assessments

- The Following Items Required for COL Issuance are Complete:
 - 10 CFR Part 21 and 50.55(e) Programs
 - 10 CFR 50.59 / 52 Appendix D Section VIII Programs
 - Personnel Qualification Program for 50.59/52 Appendix D Section VIII
 - NQA-1 Implementation Procedure Changes

COL Readiness Assessments

- Both Assessments Identified Enhancements to be Implemented in late 2011 / Early 2012, including:
 - Formalize ITAAC-Related CAP Identification Methods
 - Improve Accessibility Tools for Vendor Documents
 - Clarify Consortium Roles and Responsibilities
 - Ensure Adequate Consortium Staffing in Key Areas
 - Strengthen WEC / Shaw / SCE&G Interface Processes
 - Improve CAP Timeliness and Resolution
 - Provide Familiarization Training for Personnel on Unique Aspects of Construction, Such as ITAAC

COL Readiness Assessments

- Actions Needed for COL Issuance are Complete
- Enhancement Opportunities Have Been Entered Into the SCE&G / Consortium CAP
- The Site is Prepared for Safety-Related Construction Work

ITAAC Overview

Inspections, Tests, and Analyses are performed in accordance with normal work processes

- Not all ITAAC are safety-related, but all ITAAC are performed under the Licensee's QA program
- Identification on project schedules
- Construction work documents and test procedures that perform ITAACs specifically identified
- Procurement technical requirements specify ITAAC documentation requirements

ITAAC Overview(cont)

- Created ITAAC team including members from Construction, Licensing, Engineering, and Operational Readiness
- Developing Performance and Documentation Plans (PDPs) for all ITAAC
- Developing tracking tool

Contractor Oversight

- SCANA QA, Construction, Engineering, and Licensing direct oversight of Consortium activities
- SCANA has stop work authority for Consortium
- SCANA uses a release to work approach
 - Key Elements (Currently in place)
 - NND-AP-0012 Limited Notice to Proceed
 - NND-AP-0030 Preconstruction Screening
 - NNDG-CS-0001 Construction Oversight (Unit 1 impact assessment)
 - Minor Changes will occur to the above post COL

Contractor Oversight

- SMS Oversight
 - Periodic visits
 - Observations/Audits/Surveillances
 - Readiness Reviews
 - Participation in release to work
- CB&I Oversight
 - Participating in WEC audits, Vogtle readiness reviews, and corrective action review

Construction Experience Program

- Typical Inputs
 - NRC (Information Notices, Interim Staff Guidance, Generic Letters, NUREG 1055, etc.)
 - Industry: INPO, China AP1000 projects, APOG Utilities
 - Westinghouse and Shaw programs – CAPs, E&DCRs, RFIs, Post-Job critiques
- Evaluation Programs
 - SCE&G: Construction Experience Screening Committee → Corrective Action Program
 - Shaw: OE/Lessons Learned Program
 - Westinghouse: iKnow Program

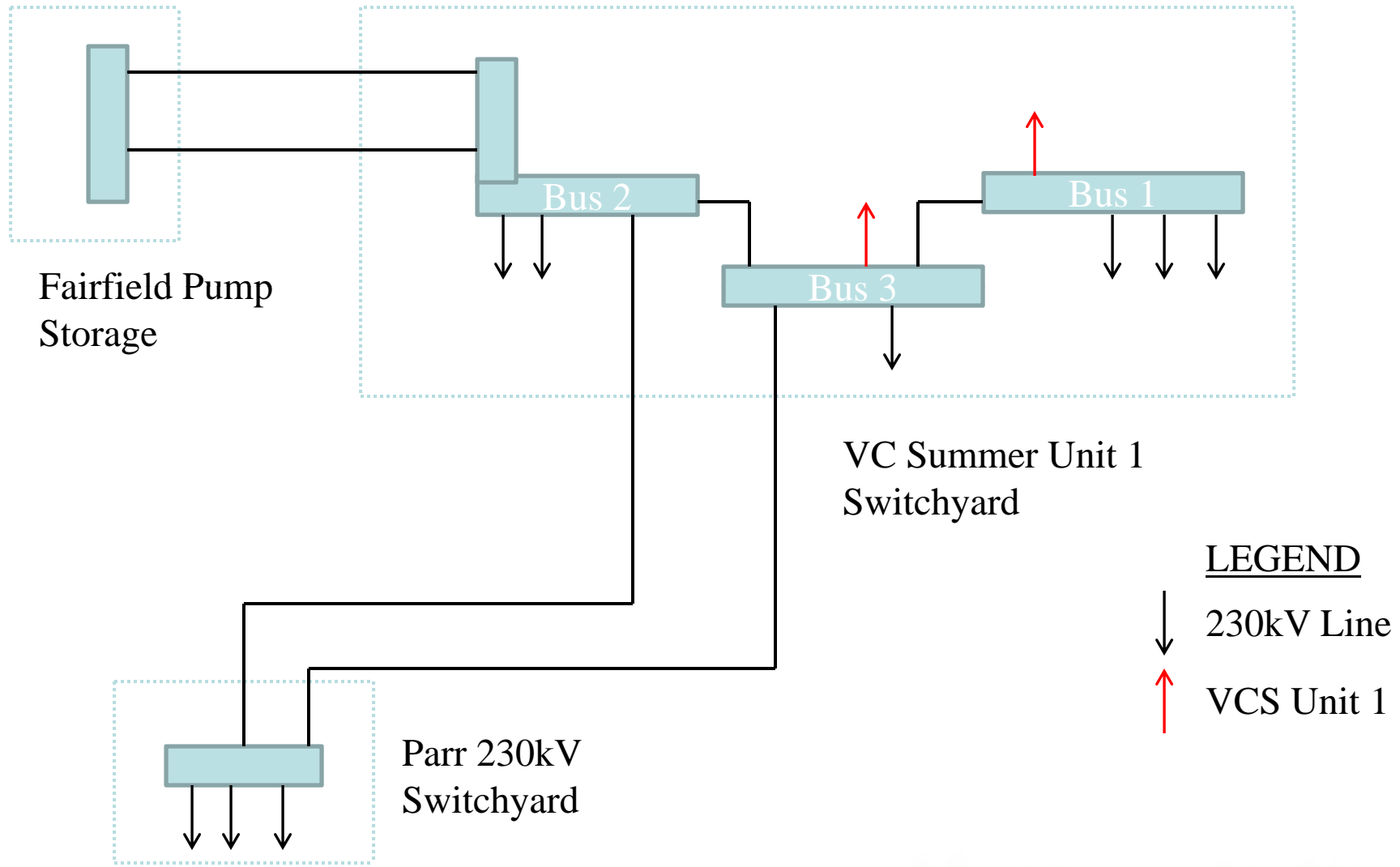
Construction Experience Examples

- Containment Vessel
- CA Structural modules
- Nuclear Island Base mat
- Logistics
- Working near operating units
- Waterproof Membrane

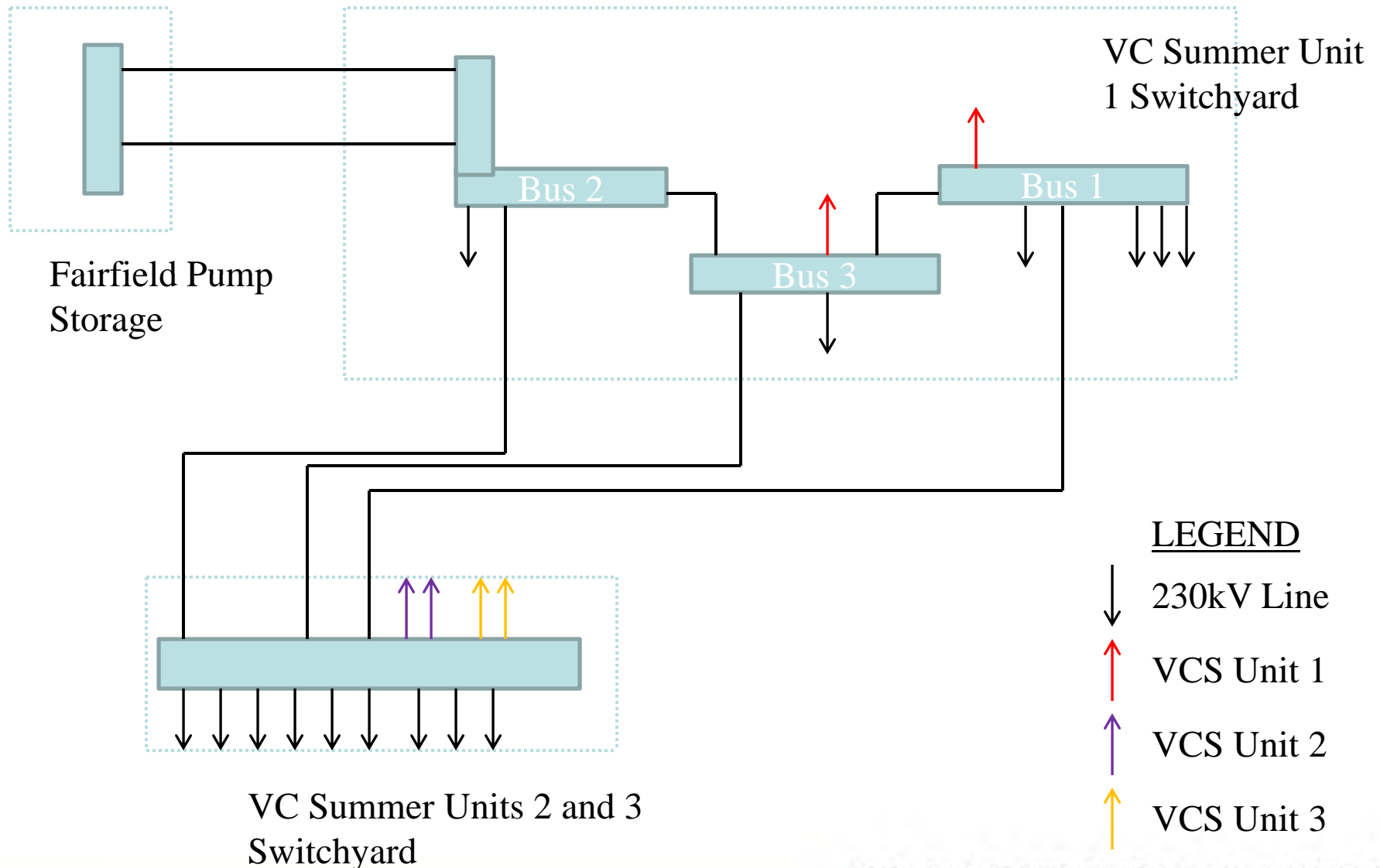
Switchyard

- The Basic design of the Switchyard is classified as a breaker and a half design
- The Switchyard consumes approximately 32 acres
- The foundations required 905 individual caissons
- The expected date to energize the yard is March 2013

Original Area 230 kV System



Final Area 230kV System



Changes to Area 230 kV System

- 5 new 230kV lines identified by transmission system power flow and grid stability studies (2 added to Unit 1 Switchyard and 3 added to Unit 2 switchyard)
- 3 ties added between Unit 1 Switchyard and Unit 2 and 3 Switchyard for stability and reliability
- 3 lines moved from Unit 1 switchyard to Unit 2 and 3 switchyard to avoid line crossings
- Parr 230 kV switchyard to be decommissioned requiring 1 line to be moved to Unit 1 switchyard and 2 lines to be moved to Units 2 and 3 switchyard

Project Status

- Unit 2 and 3 construction on schedule
- 12 SCE&G personnel from Unit 1 construction assigned to Units 2 & 3
- Employees onsite: NND 150, Consortium 1000
- Completed activities: roads, railroad, concrete batch plants, Module Assembly Building, and construction support facilities
- Ongoing activities: Unit 3 mapping, Heavy Lift Derrick, Switchyard, Containment Vessel welding, Cooling Tower foundations, and underground piping systems

VCSNS Site Development







CA01/CA20 PLATEN FABRICATION



09/20/2011 01:31 PM



CA20_01 & CA20_0
Sized Mockup

10/18/2011 03:5

**CA20_01 & CA20_02
Full Sized Mockup
(CA20 Platen Near
& CA01 Platen Far)**

10/20/2011 08:43 PM





10/26/2011 11:21 AM

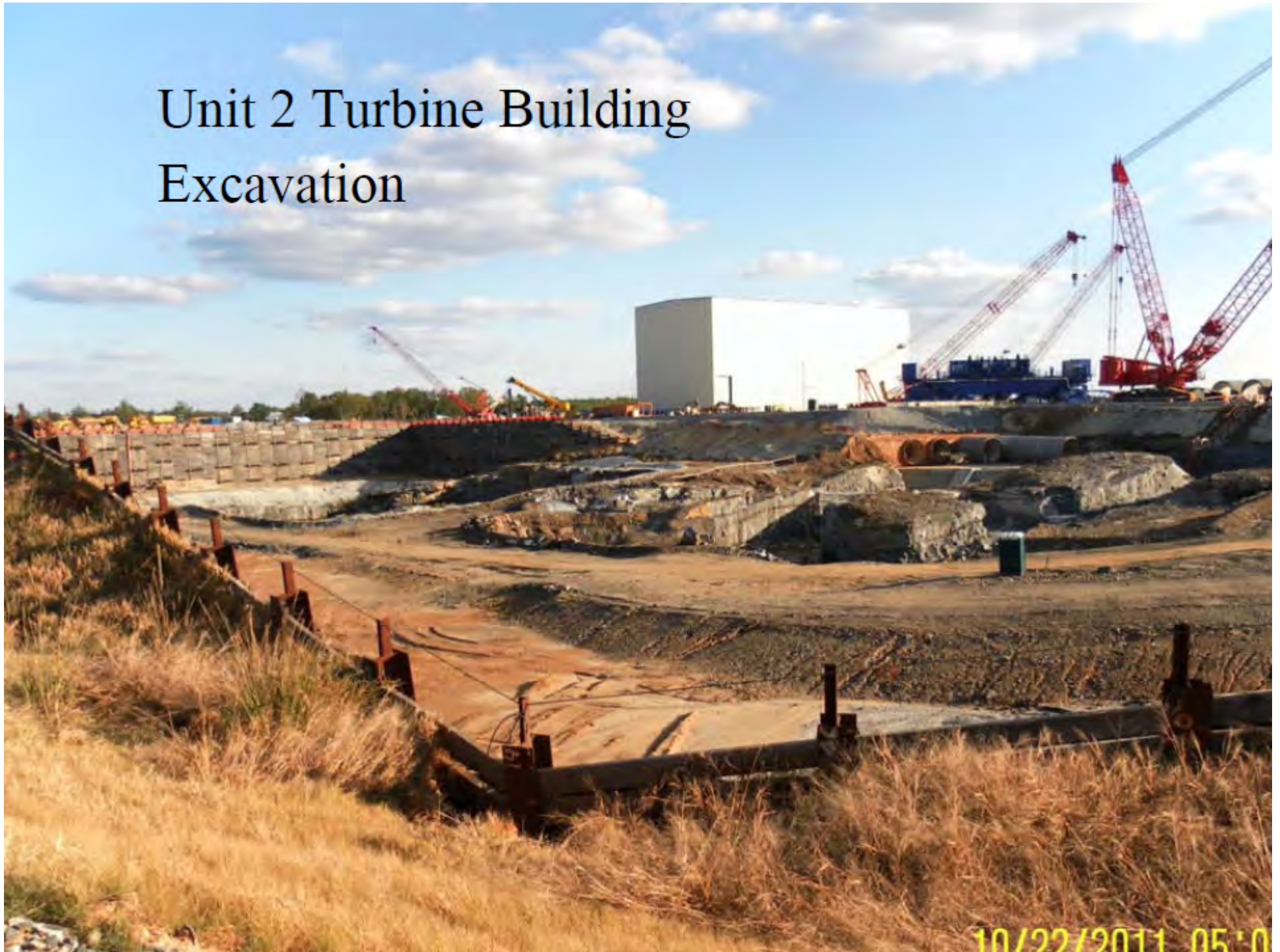
10.26.11
Module
Mock-up

Unit 3 Excavation Entrance



10/22/2011 05:10

Unit 2 Turbine Building Excavation



10/22/2011 05:00

Setting Unit 2 CW
to the Pump House



10/20/2011 12:55



09/19/2011 12:08 PM

UNIT 2 CWS PIPE TO COOLING TOWER 2A



CB&I LOWER BOWL FABRICATON

CBI Bowl Placement



HLD Erection



08/30/2011 11:23 AM



BOOM SECTIONS







Switchyard



09/07/2011 09:05 AM

Operational Readiness

- People
- Programs
- Procedures
- Pre Operational/Start Up Test
- Technical Focus Areas

Closing Message

- Focus on Safety Culture
- Focus on Applying Lessons Learned
- Necessary Programs/Procedures in Place
- Effective Contractor Oversight
- Ready for COL & Safety Related Construction

Questions?