PMComanchePeakPEm Resource

From: Woodlan, Don [Donald.Woodlan@luminant.com]
Sent: Tuesday, July 26, 2011 12:45 PM
To: Kallan, Paul
Cc: Monarque, Stephen; Conly, John; ComanchePeakCOL Resource; Evans, Todd; Bird, Bobby; nicholas_kellenberger@mnes-us.com; 'tapia_joseph@mnes-us.com'; russell_bywater@mnes-us.com
Subject: 2011-07-26 Woodlan, Comanche Peak Chapter 10 - Draft ACRS Presentation
Attachments: R-COLA Chapter 10.pptx

Paul,

Attached is our draft presentation for ACRS. John Conly has the lead to develop the slides and will be making the presentation for us.

Please let us know if you see any conflicts or unnecessary overlap with your presentation. We plan to submit our final slides to ACRS one week before the briefing.

Donald R. Woodlan
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From: Kallan, Paul [mailto:Paul.Kallan@nrc.gov]
Sent: Monday, July 25, 2011 10:10 AM
To: Woodlan, Don
Subject: Comanche Peak Chapter 10

Hi Don,

I should have my ACRS slides to you on Thursday. How is your presentation coming along?

Regards,

Paul Kallan, Senior Project Manager
Office of New Reactors
Division of New Reactor Licensing
USAPWR Projects Branch (NMIP)
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Hearing Identifier: ComanchePeak_COL_Public
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Subject: 2011-07-26 Woodlan, Comanche Peak Chapter 10 - Draft ACRS Presentation
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Received Date: 7/26/2011 12:43:03 PM
From: Woodlan, Don

Created By: Donald.Woodlan@luminant.com

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LUMINANT GENERATION COMPANY

Comanche Peak Nuclear Power Plant, Units 3 and 4

ACRS US-APWR Subcommittee

FSAR Chapter 10 – Steam and Power Conversion System

July 27, 2011

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US-APWR

MNES
MITSUBISHI NUCLEAR ENERGY SYSTEMS, INC.

Agenda

- Introduction
- Subsection by Subsection Discussion
  - FSAR Summary – COL Items, Departures
  - SER Summary – Open Items, Confirmatory Items, Proposed License Conditions
  - Site-Specific Aspects
- Summary

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Introduction

- FSAR uses “Incorporated by Reference” methodology
- No departures from US-APWR DCD
- No SER Open or Confirmatory Items
- No contentions pending before ASLB

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10.1 Summary Description

- **CPNPP FSAR Summary**
  - **US-APWR DCD incorporated by reference**
  - **No departures or supplements**
  - **No COL Information Items**
- **NRC SER Summary**
  - **No Open Items or Confirmatory Items**
  - **No proposed License Conditions**

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10.2 Turbine-Generator (T/G)

- **CPNPP FSAR Summary**
  - **US-APWR DCD incorporated by reference**
  - **No departures**
  - **One COL Information Item**
- **NRC SER Summary**
  - **No Open Items or Confirmatory Items**
  - **No proposed License Conditions**

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10.3 Main Steam Supply System

- CPNPP FSAR Summary
  - US-APWR DCD incorporated by reference
  - No departures
  - Two COL Information Items
- NRC SER Summary
  - No Open Items or Confirmatory Items
  - No proposed License Conditions

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10.3 Main Steam Supply System (cont'd)

- **Site-Specific Aspects**
  - **Flow-Accelerated Corrosion Monitoring Program**
    - Addresses GL 89-08
    - Consistent with NSAC-202L-R2
    - Will be established before fuel load with governing procedure and implementing procedures
    - Will be updated periodically to include industry experience

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10.4 Other Features of Steam and Power Conversion System

- CPNPP FSAR Summary
  - US-APWR DCD incorporated by reference
  - No departures
  - Four COL Information Items
- NRC SER Summary
  - No Open Items or Confirmatory Items
  - No proposed License Conditions

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10.4 Other Features (cont'd)

- **Site-Specific Aspects**
  - **Circulating Water System**
    - Makeup/blowdown from/to Lake Granbury 7 miles away
    - Makeup water intake structure screens limit intake velocity to 0.5 fps
    - Two 50% makeup water pumps per unit and common spare housed in makeup water intake structure
    - Blowdown by gravity drain with priming pump available
    - Blowdown treated by filtration, reverse osmosis, and evaporation as necessary to meet water permit

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10.4 Other Features (cont'd)

- **Site-Specific Aspects (cont'd)**
  - **SG Blowdown System**
    - Startup BD rate is ~3% MSR
    - Normal operation BD rate is ≤1% MSR
    - Rad monitor downstream of SGBD HX
    - Cooled BD goes to existing waste management pond
    - Single-wall stainless and double-wall carbon piping used in different parts of system (RG 4.21)

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Summary

- US-APWR DCD incorporated by reference
- No departures
- All COL Information Items addressed in FSAR Chapter 10
- No SER Open Items or Confirmatory Items

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Acronyms

ASLB	Atomic Safety and Licensing Board
COLA	Combined License Application
CPNPP	Comanche Peak Nuclear Power Plant
CWS	Circulating Water System
DCD	Design Control Document
FSAR	Final Safety Analysis Report
HX	Heat Exchanger
MSR	Maximum Steaming Rate
R-COLA	Reference COLA
RG	Regulatory Guide
SER	Safety Evaluation Report
SGBD	Steam Generator Blowdown