



MEETING WITH AREVA NP, UNISTAR, AND AMERENUE

AUGUST 14, 2008

DPC processing date 10/27/2008



Agenda

- | | | |
|--|----------|--------|
| • Acceptance Review Logistics for Callaway SCOLA | NRC | 15 Min |
| -Where to find the application? | | |
| -Acceptance Review Schedule | | |
| -PM Assignments | | |
| • Overview of Callaway SCOLA | AmerenUE | 60 Min |
| • Break | | 15 Min |
| • Status of Calvert Cliffs RCOLA Review | | 30 Min |
| -Changes to RCOLA due to Callaway SCOLA | UniStar | |
| -RAI Metrics | NRC | |
| -Schedule for future supplements/revisions | UniStar | |
| -Calvert Cliffs RCOLA Review Schedule | NRC | |
| • Status of EPR Application Review | | 30 Min |
| -Changes to EPR due to RCOLA & SCOLA | Areva | |
| -RAI Metrics | NRC | |
| -Schedule for EPR revisions | Areva | |
| -EPR DC Review Schedule | NRC | |
| • Status of the Nine Mile Point & Bell Bend SCOLAS | UniStar | 15 Min |
| • Public Comments | | 15 Min |

EPR Project Branch (NARP)

Joe Colaccino, Branch Chief

Name	Office	Phone	Acceptance Review Branch Assignment	Chapter Assignments
COL Lead PMs	various	various	NA	Ch 2
Getachew Tesfaye (GT)	T-6C22	X-3361	NSIR/LIB NSIR/RSPLB	DC Ch 1
Peter Hearn (PH)	T-6E59	X-1189	DCIP/CTSB DSRA/SBPA DSRA/SFPT	Ch 10, Ch 15, Ch 16
Jack Donohue (JD)	T-7C30	X-3163	DCIP/CQVP1 DSRA/SBCV	Ch 13, Ch 14
John Rycyna (JR)	T-6C24	X-4122	DSER/SPLA	ER, Ch 1 DC Ch 2 Ch 19
Michael Canova (MC)	T-7C14	X-0737	DCIP/COLP DE/ICE1 DE/EEB	Ch 7, Ch 8, Ch 18
Surinder Arora (SA)	O-16B6E	X-1421	DCIP/CHPB DE/EMB1 DE/SEB1	Ch 6, Ch 11, Ch 12
Tarun Roy (TR)	T-7J3	X-0493	DSER/RSAC DSER/RGS1 DSER/RHEB	Ch 3 Ch 5
Evan Davidson (ED)	O-13B4C	X-1342	DE/CEB1 DSER/SRSB	Ch 4, Ch 9, Ch 17

*Chapter PMs will have lead for assigned chapters in DC and all COL reviews

Lead PM
EPR DC:
GT

Lead PM
COL Reviews:
JR, acting

Chapter 1
Lead EPR DC: GT Backup: JR
Lead RCOL: JR Backup: GT

Chapter 2
Lead: DC JR, COLs Lead PMs

Chapter 11
Lead: SA Backup: TR

Chapter 3
Lead: TR Backup: SA

Chapter 12
Lead: SA Backup: TR

Chapter 4
Lead: ED Backup: JD

Chapter 13
Lead: JD Backup: ED

Chapter 5
Lead: TR Backup: PH

Chapter 14
Lead: JD Backup: ED

Chapter 6
Lead: SA Backup: TR

Chapter 15
Lead: PH Backup: JR

Chapter 7
Lead: MC Backup: GT

Chapter 16
Lead: PH Backup: JR

Chapter 8
Lead: MC Backup: GT

Chapter 17
Lead: ED Backup: JD

Chapter 9
Lead: ED Backup: JD

Chapter 18
Lead: MC Backup: GT

Chapter 10
Lead: PH Backup: JR

Chapter 19, ER
Lead: JR Backup: PH

RCOLA
CCNPP, MD
JR

Callaway, MO
Lead PM:
SA

Nine Mile, NY
Lead PM:
TBD

Berwick, PA
Lead PM:
TBD

Bruneau, ID
Lead PM:
TBD

Amarillo, TX
Lead PM:
TBD



CCNPP3 Project Background

- Part I (July 2007, Accepted January 2008), ER and Siting mainly
- Part 2 (March 17, 2008)
 - No changes to ER and General Information
 - Changes to siting information for DC consistency
 - One Topical Report on racks for new and spent fuel



Contents of RCOLA Package

- Under the application cover letter dated 3/14/08:
 - RCOL Non-public - including proprietary and sensitive unclassified non-Safeguards Information (SUNSI)
 - RCOL Public - in which proprietary and SUNSI material is redacted
- By two separate cover letters dated 3/14/08:
 - Safeguards/Security Plan
 - Spent and New Fuel Analyses Report
 - Public and Proprietary versions

Use of Brackets in RCOLA

- Words in {brackets} mean that in SCOLs which follow, the applicants need to change the information within the brackets. The words in the brackets apply to the CCNPP3 COLA.
- Words in [brackets] mean that information is redacted from the public version of the COLA. The words in the brackets apply to the CCNPP3 COLA.



Use of Brackets in RCOLA

- Words in `[[brackets]]` are conceptual design information from the EPR DC FSAR. The site specific information to be reviewed follows the double bracketed conceptual design information.

Content of RCOLA Package

Project Documents - Microsoft Internet Explorer provided by USNRC

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Copy Paste

Address <http://epm.nrc.gov/EPR/Project%20Documents/Forms/AllItems.aspx>

Office of New Reactors Welcome John Rycyna | My Site | My Links

EPR This List: Project Documents

Office of New Reactors ESBRW ABWR AP1000 EPR USAPWR EPM ADAMS EXPLORER WIZARD CONTRACTS TECHSUPPORT OPERATIONAL SUPPORT EPM USER GROUP Site Actions

Office of New Reactors > EPR > Project Documents

Project Documents

Create a document library when you have a collection of documents or other files that you want to share. Document libraries support features such as sub-folders, file versioning, and check-in/check-out.

New Upload Actions Settings View: All Documents

Type	Name	Modified	Owner	Status	Modified By
Folder	AREVA US-EPR DC Application Documents	12/17/2007 3:58 PM			Evan Davidson
Folder	AREVA US-EPR DC Application Exemption Requests	12/17/2007 3:59 PM			Evan Davidson
Folder	AREVA US-EPR DC Application Technical Reports	12/17/2007 3:59 PM			Evan Davidson
Folder	CCNPP3 (S200016) RCOL Documents	2/13/2008 4:01 PM			John Rycyna
Folder	DC Review Schedule for meeting with BC's	2/26/2008 10:44 AM			Evan Davidson
Document	Areva Audit Issues (By Bin Number)	1/3/2008 2:30 PM	Deanna Clarke	Final	Evan Davidson
Document	Areva Audit Issues (by FSAR Chapter)	1/9/2008 3:12 PM	Deanna Clarke	Final	Michael Canova
Document	EPR PM Assignments_121007	3/7/2008 12:57 PM	Evan Davidson	Final	Michael Canova
Document	EPR Research Plan, F0	12/20/2007 2:35 PM		Final	Getachew Tesfaye
Document	generic issues table	2/22/2008 4:09 PM		Draft	Stephen Koenick
Document	Risk Insights for the Review of the U.S. EPR Design	1/4/2008 1:15 PM	Theresa Valentine Clark	Final	Theresa Valentine Clark
Document	Status of Schedule Data Entry	2/15/2008 3:49 PM	Donald Habib	Draft	Mary Klump

View All Site Content

Sites

Tools

- Standard Review Plan
- Reg Guide 1.206
- SER Template Users Guide (ML072620257)

Lists

- Issues
- Risks
- Deliverables
- Calendar
- Tasks

Documents

- Project Documents

Discussions

- Team Discussion

People and Groups

Recycle Bin

Content of RCOLA Package

Project Documents - Microsoft Internet Explorer provided by USNRC

Address: <http://epm.nrc.gov/EPR/Project%20Documents/Forms/AllItems.aspx?RootFolder=%2FEPR%2FProject%20Documents%2FCCNPP3%20%285200016%29%20RCOL%20Documents&FolderCTID=8View=%7b223D4299%2d7898%2d4EB>

Welcome John Rycyna | My Site | My Links | Site Actions

Office of New Reactors > EPR > Project Documents > CCNPP3 (5200016) RCOL Documents

Project Documents

Create a document library when you have a collection of documents or other files that you want to share. Document libraries support features such as sub-folders, file versioning, and check-in/check-out.

View: All Documents

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Folder	Part 02 FSAR	3/18/2008 9:36 AM			John Rycyna
Folder	Part 03 ER	3/18/2008 9:57 AM			John Rycyna
Folder	Part 04 Tech Specs	3/18/2008 10:06 AM			John Rycyna
Folder	Part 05 Emerg Plan	3/18/2008 10:06 AM			John Rycyna
Folder	Part 06 LWA	3/18/2008 10:06 AM			John Rycyna
Folder	Part 07 DCD Departures	3/18/2008 10:06 AM			John Rycyna
Folder	Part 08 Withheld	3/18/2008 10:06 AM			John Rycyna
Folder	Part 09 Withheld	3/18/2008 10:06 AM			John Rycyna
Folder	Part 10 ITAAC	3/18/2008 10:06 AM			John Rycyna
Folder	Part 11A QAPD	3/18/2008 10:06 AM			John Rycyna
Folder	Part 11B DCD	3/18/2008 10:06 AM			John Rycyna
Folder	Part 11C ESP	3/18/2008 10:27 AM			John Rycyna
Folder	Part 11D ESP EIS	3/18/2008 10:27 AM			John Rycyna
Folder	Part 11E State Emerg Plans	3/18/2008 10:27 AM			John Rycyna
Folder	Part 11F Local Emerg Plans	3/18/2008 10:31 AM			John Rycyna
Folder	Part 11G Inc By Reference	3/18/2008 10:32 AM			John Rycyna
Folder	Part 11H Withheld	3/18/2008 9:57 AM			John Rycyna
File	UnistarAuditIssues	2/12/2008 1:28 PM	John Rycyna	Final	John Rycyna
File	UN-TR-08-001(NP)-nonprop new	3/18/2008 11:12 AM		Draft	John Rycyna

Done

Start | Project Documents - ... | Novell GroupWise - Mailbox | CCNPPRCOLAccept | Microsoft PowerPoint - [...]

Trusted sites | 4:23 PM

Content of RCOLA Package

Project Documents - Microsoft Internet Explorer provided by USNRC

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Office of New Reactors

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This List: Project Documents

Office of New Reactors > EPR > Project Documents > CNPP3 (5200016) RCOL Documents > Part 02-FSAR

Project Documents

Create a document library when you have a collection of documents or other files that you want to share. Document libraries support features such as sub-folders, file versioning, and check-in/check-out.

1 - 100 View: All Documents

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Document	021 UC P FSAR Appendix 2.5- A Schnabel Binder 2 Part10 NEW	3/18/2008 9:36 AM	John Rycyna	Draft	John Rycyna
Document	021 UC P FSAR Appendix 2.5- A Schnabel Binder 2 Part11 NEW	3/18/2008 9:37 AM	John Rycyna	Draft	John Rycyna
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Content of RCOLA Package

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032 UC P FSAR Appendix 2.5- C Schnabel	NEW	3/18/2008 9:47 AM	Draft	John Rycyna
1.0 UC P FSAR Introduction and General Description of the Plant	NEW	3/18/2008 9:47 AM	Draft	John Rycyna
10.0 UC P FSAR Steam and Power Conversion System	NEW	3/18/2008 9:47 AM	Draft	John Rycyna
11.0 UC P FSAR Radioactive Waste Management	NEW	3/18/2008 9:48 AM	Draft	John Rycyna
12.0 UC P FSAR Radiation Protection	NEW	3/18/2008 9:48 AM	Draft	John Rycyna
13.0 UC P FSAR Conduct of Operations	NEW	3/18/2008 9:48 AM	Draft	John Rycyna
14.0 UC P FSAR Verification Programs	NEW	3/18/2008 9:48 AM	Draft	John Rycyna
15.0 UC P FSAR Transient and Accident Analysis	NEW	3/18/2008 9:48 AM	Draft	John Rycyna
16.0 UC P FSAR Technical Specifications	NEW	3/18/2008 9:48 AM	Draft	John Rycyna
17.0 UC P FSAR Quality Assurance and Reliability Assurance	NEW	3/18/2008 9:48 AM	Draft	John Rycyna
18.0 UC P FSAR Human Factors Engineering	NEW	3/18/2008 9:48 AM	Draft	John Rycyna
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1 - 100

Done

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4:27 PM

Content of RCOLA Package

Project Documents - Microsoft Internet Explorer provided by USNRC

Address: http://epm.nrc.gov/EPR/Project%20Documents/Forms/AllItems.aspx?Paged=TRUE&p_FSObjType=08p_FileLeafRef=2%2e0%20UC%20P%20FSAR%20Site%20Characteristics%20Part22%2epdf&p_ID=12798&View=%7b223D4299%7d

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2.0 UC P FSAR Site Characteristics Part9	3/18/2008 9:56 AM	Draft	John Rycyna
3.0 UC P FSAR Design of Structures, Components, Equipment and Systems	3/18/2008 9:56 AM	Draft	John Rycyna
4.0 UC P FSAR Reactor	3/18/2008 9:56 AM	Draft	John Rycyna
5.0 UC P FSAR Reactor Coolant System and Connected Systems	3/18/2008 9:56 AM	Draft	John Rycyna
6.0 UC P FSAR Engineered Safety Features	3/18/2008 9:56 AM	Draft	John Rycyna
7.0 UC P FSAR Instrumentation and Controls	3/18/2008 9:56 AM	Draft	John Rycyna
8.0 UC P FSAR Electric Power	3/18/2008 9:56 AM	Draft	John Rycyna
9.0 UC P FSAR Auxiliary Systems	3/18/2008 9:56 AM	Draft	John Rycyna
9B UC P FSAR Fire Protection Analysis - Plant Specific Supplement	3/18/2008 9:56 AM	Draft	John Rycyna
FSAR_TOC	3/18/2008 9:56 AM	Draft	John Rycyna

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Communication Protocol

- During the acceptance review period:
 - The RCOL lead PM and the DC lead PM will serve as points of contact with UniStar
 - Tech reviewers will communicate any potential acceptance review issues to their Branch PMs in writing (email OK)
 - Telecons with UniStar will be held on an as needed basis to discuss potential acceptance review issues.
- Post-acceptance review period:
 - The RCOL lead PM or his designated alternate will be the only point of contact with UniStar.
 - Chapter PMs will be the primary contact with the tech reviewers and will be responsible for all licensing activities for their chapter.



Acceptance review performance/expectations

- NRO Office Instruction REG-100
 - 60 day completeness and technical sufficiency review
 - Determine acceptability for docketing as well as confirm planning assumptions (schedule)
 - Use RG 1.206
 - Use DC Table 1.8-2, COL Items
- Use results of audit to inform the acceptance review



Acceptance review performance/expectations

- Ensure that a sufficient level of detail is provided to address the requirements of Subpart C of Part 52
 - Based on input from the Branch PMs
 - Branch PMs should ensure that their assigned branches use OI-REG-100 and RG 1.206
 - Tech Branches should fill out the tables in Attachment C of OI-REG-100 but shouldn't wait to let Branch PMs know if there are issues



Acceptance review performance/expectations

- Communicate issues early (in writing (email OK) to your branch PM)
- **Focus on issues of completeness and technical sufficiency not potential RAIs**
- We will have frequent telecons with the applicant to discuss issues as needed
- Branches should document the results of their acceptance reviews IAW OI-REG-100

EPM Schedule

Project Details: EPR_CALVERT_AR - Project Web Access - Microsoft Internet Explorer provided by USNRC

Address: http://epm.nrc.gov/NRCPWA/ProjectDrillDown.aspx?_projectUID=9dab9edf-a40e-4452-b61c-44972f6c08b

Welcome John Rycyna | My Site | My Links |

Office Project Web Access

OFFICE OF NEW REACTORS | ESBWR | ABWR | AP1000 | EPR | USAPWR | **EPM** | ADAMS EXPLORER | WIZARD | TECH SUPPORT | EPM USER GROUP | OPERATIONAL SUPPORT

Site Actions

Project Details: EPR_CALVERT_AR

Project Details

New | Actions | Go To |

Search for: | In: All Fields | Find Next

Edit | Edit Project Properties | Build Team |

TAC_ID	ID	Task Name	% Work Complete	Work	Baseline Start	Start	Baseline Finish	Finish
	132	Schedule Development (Acceptance Memo through Public Schedule)	0%	193h	NA	5/12/2008	NA	7/1/2008
	133	NPLS PMs Compile Branch Memo Results and Prepare Internal Schedule	0%	32h	NA	5/12/2008	NA	5/23/2008
	134	Technical Branch Chief Review of Internal Schedule	0%	132h	NA	5/23/2008	NA	6/2/2008
	135	NPLS PM Completes Internal Schedule with Tech BC Input	0%	1h	NA	6/2/2008	NA	6/9/2008
	136	DNRL Projects BC and NPLS BC Review Internal Schedule	0%	12h	NA	6/9/2008	NA	6/16/2008
	137	DNRL Deputy Director Reviews and Approves Schedule for Public Release	0%	12h	NA	6/16/2008	NA	6/23/2008
	138	Public Schedule Completed and Schedule Letter Issued	0%	2h	NA	6/23/2008	NA	6/26/2008
RC0545	139	Post-Memo Interactions with Applicant	0%	1h	NA	5/12/2008	NA	6/3/2008
RC0546	140	Post-Acceptance PM Assistance to NPLS to Develop Detailed Schedule	0%	1h	NA	6/3/2008	NA	7/1/2008
	141	Removed Tasks	100%	0h	NA	11/8/2007	NA	4/1/2008
RC0085	142	CIB CIB SRP 3.2.1 Check Completeness and Technical Sufficiency	100%	0h	NA	11/8/2007	NA	11/8/2007
RC0086	143	CIB SRP 3.2.2 Check Completeness and Technical Sufficiency	100%	0h	NA	11/8/2007	NA	11/8/2007
RC0089	144	CIB SRP 3.9.2 Check Completeness and Technical Sufficiency	100%	0h	NA	11/8/2007	NA	11/8/2007
RC0090	145	CIB SRP 3.9.3 Check Completeness and Technical Sufficiency	100%	0h	NA	11/8/2007	NA	11/8/2007
RC0091	146	CIB SRP 3.9.4 Check Completeness and Technical Sufficiency	100%	0h	NA	11/8/2007	NA	11/8/2007
RC0092	147	CIB SRP 3.9.5 Check Completeness and Technical Sufficiency	100%	0h	NA	11/8/2007	NA	11/8/2007
RC0095	148	CIB SRP 3.9.7 Check Completeness and Technical Sufficiency	100%	0h	NA	11/8/2007	NA	11/8/2007
RC0096	149	CIB SRP 3.9.8 Check Completeness and Technical Sufficiency	100%	0h	NA	11/8/2007	NA	11/8/2007
RC0103	150	CIB SRP 5.2.2 Check Completeness and Technical Sufficiency	100%	0h	NA	11/8/2007	NA	11/8/2007
RC0122	151	CIB SRP 9.2.3 Check Completeness and Technical Sufficiency	100%	0h	NA	11/8/2007	NA	11/8/2007
RC0058	152	CCIB SRP 14.3.1 Check Completeness and Technical Sufficiency	100%	0h	NA	11/8/2007	NA	11/8/2007
RC0059	153	CCIB SRP 14.3.2 Check Completeness and Technical Sufficiency	100%	0h	NA	11/8/2007	NA	11/8/2007
RC0060	154	CCIB SRP 14.3.3 Check Completeness and Technical Sufficiency	100%	0h	NA	11/8/2007	NA	11/8/2007

Done

Start | Project Details: EPR... | Novell GroupWise - Mailbox | Trusted sites | 10:00 AM



Risk Insights: What's the Point?

- The probabilistic risk assessment (PRA) reviewers want to communicate with you (not AT you) about the risks of new reactor designs and how risk information can help you focus your review.
- The insights document is extremely condensed, so we encourage discussion!

Risk Insights: What's this Document?

- A summary of the development process, then:
 - **Appendix A: Systems**
 - Assumptions, features, and review effort
 - **These assumptions are inputs to the PRA—if they're wrong, PRA staff needs to know!**
 - **Appendix B: Component/operator actions**
 - Importance of specific things modeled in the PRA
 - You can use these to focus your review and to decide whether an **acceptance review issue involves a risk-significant SSC/action.**
 - **Appendix C: Dependencies**
 - Can erode assumptions of diversity/redundancy



Risk Insights: Where Do I Get Them?

- PRA Support webpage
- SharePoint EPR tab
- ADAMS: ML080040283

- When in doubt (or curious), talk to Theresa Clark or Hanh Phan!



Staff Review Tools - Electronic RAIs

- No Change to Basic Process
- RAIs Generated by Electronic Workflow
- RAIs issued Electronically by E-Mail
- Applicants Encouraged to Provide Advance Answers to RAI Questions
- Official Response Sent Under Oath or Affirmation



Staff Review Tools – SER Templates

- SER Templates are being developed for EPR DC and COL Applications.
- We have recently set up a task order on an existing contract with Numark Associates, Inc. to develop these Templates.
- Numark will be developing these Templates by Chapters. The draft Chapter Templates will be coordinated with the Technical Staff through the Chapter PMs.



Feedback

- Open to any suggestions/questions