

# **US-APWR**

# DCWG Meeting

7/18/2013





## **Overall Agenda**



- 1. Management Focus Issues
- 2. Review of actions from previous meeting
- 3. Review of goals from previous meeting
- 4. General NRC update
- 5. DC review status
- 6. DCD ACRS Meeting Schedule
- 7. RCOLA review status
- 8. Integrated DCWG Schedules
- 9. Special Generic Topics (e.g. Fukushima)
- 10. Review of goals for next meeting
- 11. Review of actions items from this meeting

**BOLD** items are included in this presentation.





## 1. Management Focus Issues



- Issues for discussion needing management decisions and/or actions
- No focus issues for this meeting







#### 2. Review of Actions



- NRC to look at how to communicate progress of seismic review
- Mitsubishi to verify any impact of SA Cleanup to RAI 15.6.5-100 COMPLETE, communicated to Staff that RAI response is acceptable as-is and not expected to be impacted by SA Cleanup
- Mitsubishi to propose public meeting for BL 2012-01, following industry meeting INCOMPLETE, industry meeting held 6/27/2013, Mitsubishi reviewing results of meeting prior to proposing additional discussions with Staff
- Mitsubishi to clean-up hearing schedule included in presentation
- Mitsubishi/NRC to gain alignment on LTCC ACRS meeting







#### 3. Review of Goals



- Goals from previous DCWG Meeting (NRC)
  - Issue Fukushima RAIs for DCD review 2 RAIs issued
  - On-track to issue RCOLA Ch 6 and 9 SERs before 8/15/2013 –
     Achieved (on-track)
  - 3. Complete review of all RCOLA questions greater than 90 days under NRC review **Ch 19 RAI remaining**
- Goals from previous DCWG Meeting (Applicants)
  - Public meeting to communicate all changes for DCD Rev 4 postponed
  - Reduce DCD 'Waiting for Response' RAIs to 180, from 211 –
     204 RAIs outstanding for response in eRAI
  - 3. On-track to submit COLA update to address Fukushima lessons learned by 8/30/2013 **Achieved (on-track)**
  - 4. On-track to submit remaining ISCP and IHCP products by 9/30/2013 Addressed later in presentation MITSUBISHI HEAVY INDUSTRIES, LTD.



## 4. General NRC Update



Update of Staff review of current DCD and RCOLA schedules to be provided.







- Discussion topics status or updates for key review areas, not currently identified as needing management action
- Closed topics
- > RAI responses and closure status









## Discussion topics

- ✓ Seismic (Ch 3)
  - Submittal of RAI responses and reports continue, with frequent interactions and updates provided to the Staff
  - Meeting held 7/17/2013
- √ Fuel Seismic (Ch 4)
  - Meeting held 5/30/2013
  - Closure plan, test plan and revised ToR submitted to Staff
  - Additional interactions being arranged to get feedback from Staff







- ✓ Strainer (Ch 6)
  - SER expected in near future
  - Revised TeRs recently submitted, incorporating previous RAI response changes
  - ACRS meeting scheduled 9/17-18/2013
  - GSI-191/LTCC meeting scheduled for 10/1/2013
- ✓ ACC (Ch 6)
  - SER expected in near future
  - ACRS meeting scheduled 9/17-18/2013
- ✓ I&C (Ch 7)
  - RAIs, OIs and CIs being discussed
  - Public meeting scheduled 7/25/2013







- ✓ Bulletin 2012-01 (Ch 8)
  - Engagement continues on industry discussions and meetings
  - Meeting to be arranged to discuss potential design changes
- ✓ Fuel Rack Mechanical Report (Ch 9 and 12)
  - RAIs responded to, responses currently under review
- ✓ Turbine Missile Probability (Ch 10 and 14)
  - All RAI responses submitted, awaiting NRC position on Tier 2\*









- ✓ OI 15.6.5-14 Boron Precipitation/HLSO time (Ch 15)
  - Currently under review
- ✓ Safety Analysis Cleanup (Ch 15 and others)
  - Official letter submitted including detail for future submittals to facilitate Staff planning.
  - Additional meetings and submittals planned through early 2014 to provide updates to the Staff, final inclusion as part of DCD Rev 5





- ✓ LPSD TS (Ch 16 and 19)
  - Response has been submitted justifying 4 hour containment closure, currently being reviewed
- ✓ DRAP Audit (Ch 17)
  - Staff have provided outline of Audit
  - Mitsubishi preparations underway to support an audit during Fall 2013
- √ HFE (Ch 18)
  - Initial submittals have been provided to Staff, positive feedback received
  - 3 TeRs remaining to be submitted, followed by ToR revision and DCD markups







## Closed topics

- ✓ Seismic Margin Analysis (Ch 19)
- ✓ PRA Closure Plan (Ch 19)









### > RAI responses and closure status

Table 3-1 - eRAI Status Overall Summary											
eRAI Data Date		12/5/11	2/21/12	4/30/12	7/5/12	9/10/12	11/26/12	3/4/13	5/20/13	7/15/13	Delta
Issued/Waiting for Response		221	214	215	316	323	317	331	211	204	-7
In Evaluation	<90 days	79	80	104	77	118	72	25	190	69	-121
	>90 days (non- 3.7/3.8*)	87	94	82	123	119	167	88	38	43	+5
	>90 days (3.7/3.8)								109	241	+132
	total	166	174	186	200	237	239	113	337	353	+16
Confirmatory Action (total)		517	500	476	445	406	421	504	531	543	+12
Confirmatory Action (closable)					71	37	21			1	+1
Unresolved - Closed (total)		897	888	879	807	740	732	713	708	714	+6
Unresolved – Closed (need disc)					225	61	45	31	26	29	+3
Resolved - Closed		3138	3249	3354	3496	3566	3607	3690	3705	3729	+24
Total		4939	5025	5110	5264	5272	5316	5351	5492	5543	+51

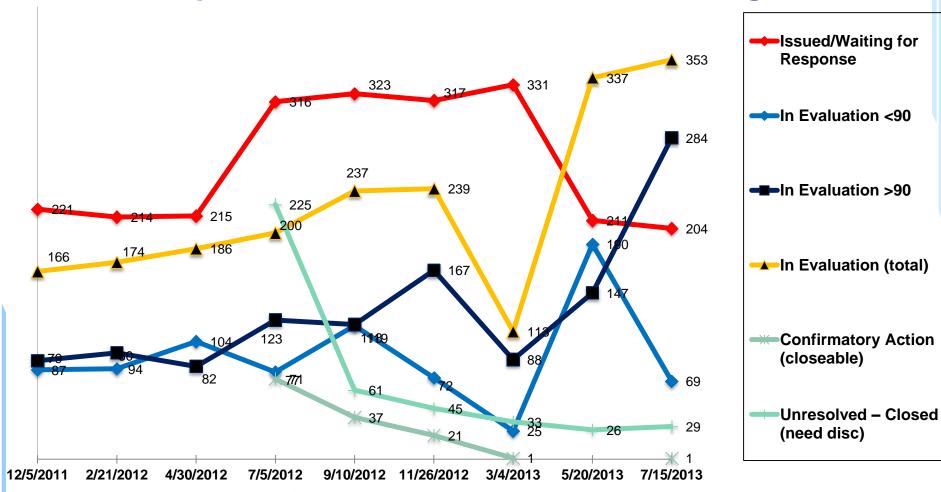
<sup>(\*)</sup> non-3.7/3.8 starting from 5/20/2013 date, prior to 5/20/2013 this row includes all sections







#### > RAI responses and closure status - Trending







## 6. DCD ACRS Meeting Schedule



	Phase Completion Dates (Comparison to 3/7/2013 DCWG Meeting)									
Chapter	Phase 1	Phase 2	Pha	ise 3	Phase 4	Phase 5	Phase 6			
	PSER	SER w/ Ols	ACRS SC	ACRS FC	SER w/o Ols	ACRS	FSER			
1	Complete	10/04/13 (+2)	11/05/13 (+2)		11/03/14					
2	Complete	Complete	Complete	Complete	9/30/14					
3 (except 3.7/8)	Complete	9/16/13	10/16-17/13	12/05/13 (+1)	11/03/14					
3.7/8	Complete	5/28/14	7/14	TBD	11/03/14					
4	Complete	Complete	Complete	Complete	8/25/14					
5	Complete	Complete	Complete	Complete	12/27/13					
6	Complete	8/17/13 (+2)	9/17-18/13	12/05/13 (+1)	7/07/14					
7	Complete	Complete	Complete	12/05/13 (+1)	12/05/13					
8	Complete	Complete	Complete	Complete	1/29/14					
9	Complete	Complete	Complete	Complete	9/16/14					
10	Complete	Complete	Complete	Complete	12/27/13					
11	Complete	Complete	Complete	Complete	1/30/14					
12	Complete	Complete	Complete	Complete	4/15/14					
13	Complete	Complete	Complete	Complete	Complete	TBD				
14 (except 14.3.2, 14.3.9)	Complete	10/05/13 (+2)	11/05/13		11/03/14					
14.3.2 (Seismic)	Complete	TBD	7/14							
14.3.9 (HFE)	Complete	TBD	TBD							
15	Complete	Complete	Complete	Complete	8/05/13					
16	Complete	Complete	Complete	Complete	11/03/14					
17	Complete	Complete	Complete	Complete	11/03/14					
18	Complete	2/28/14	TBD							
19 (except SMA)	Complete	Complete	Complete	Complete	11/03/14					
19 SMA	Complete	5/28/14	7/14	TBD	11/03/14					
AIA			TBD	TBD						
LTCC			10/01/13	TBD						







#### 7. RCOLA Review Status



#### Site-specific Seismic (ISCP)

- ✓ 5 product submittals completed from Nov 2012 to June 2013
- ✓ RAI responses scheduled for late August or early September
- ✓ FSAR UTR scheduled for September
- ✓ Integrated response in FSAR revision 4 November 2013

#### Hydrology (IHCP)

- √ 3 product submittals completed as of May 2013
- ✓ Remaining submittal scheduled for September
- ✓ Integrated response in FSAR revision 4 November 2013

#### Negation Action Plan

- ✓ Reinstate discussion with NRC on or before fourth quarter of 2014
- ✓ Following generic activity in this area





#### 7. RCOLA Review Status



#### Chapter 3

✓ DCWG developing coordinated response to NRC request for procurement specifications as part of standard plant PSC

#### Chapter 8

- ✓ Luminant has submitted changes to address the GDC 5 Offsite Power System Open Item
- √ 6/27/2013 NRC letter provided staff position
- ✓ Luminant is currently assessing the staff position, additional clarification may be needed

#### > Fukushima

✓ Site-specific response (to COLA RAIs) to be submitted by August 2013

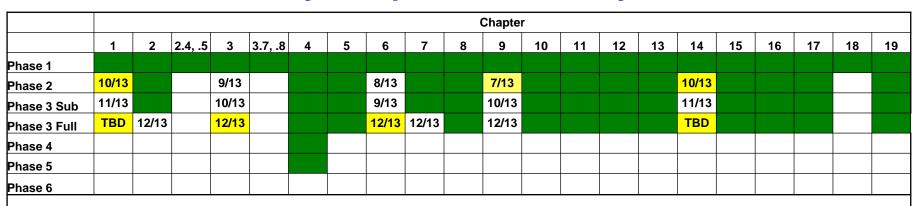




#### 7. RCOLA Review Status



#### Phase Status by Chapter – as of July 15



Phase 1 - RAIs Issued to Applicant

Phase 2 - SER w Open Items

5/23/13 DCWG

Phase 3 Sub - ACRS Sub-Committee

Phase 3 Full - ACRS full Committee

Phase 4 - SER w/o Open Items

Phase 5 - ACRS

Phase 6 - Final SER

Complete	Not complete (date indicates forecast date for completion)
Complete subsequent to	Date changed subsequent to 5/23/13 DCWG

Significant activity scheduled through December 2013. Begin scheduling Phase 4 & 5 dates.

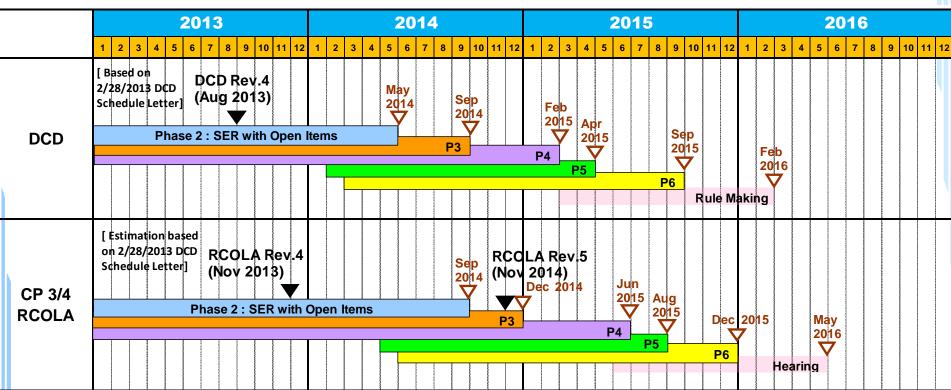




## 8. Integrated DCWG Schedules



#### **US-APWR NRC Review Schedule DCD and R-COLA**







## 8. Integrated DCWG Schedules



#### End-game planning

- ✓ Progress being made, increased focus on scheduling tool within the DCWG
- ✓ P6 schedule being utilized as a communication tool to ensure alignment among Mitsubishi and Luminant
- ✓ RCOLA schedule has been developed, schedule reviews being conducted monthly
- ✓ The schedules are available as needed







## 9. Special Generic Topics



#### Fukushima Task Force

- ✓ RCOLA response to be provided August 2013
- ✓ Credit for AAC is a key aspect of mitigation strategy, which
  Staff has recognized. Staff position is needed.
- ✓ Staff provided review plan for DCD
  - RAIs to be issued by July 2013 (2 RAIs issued)
  - Mitsubishi responses by September 2013
  - Staff SER input by January 2014
  - ACRS meeting TBD







#### 10. Review of Goals



- Goals for next DCWG Meeting (NRC)
- Goals for next DCWG Meeting (Applicants)
  - 1. Mitsubishi to submit DCD R4 by 8/31/2013
  - 2. Reduce DCD 'Waiting for Response' RAIs (non-3.7/8) from 131 to 100
  - 3. Luminant submittal of ISCP and IHCP products
  - 4. Luminant submittal of Fukushima FSAR update







### 11. Review of Actions



- Actions captured throughout this meeting will be reviewed at the start of future DCWG meetings
- Going Forward
  - ✓ Maintain focus on RAI status
  - ✓ Utilize integrated schedule in preparation for Phase 4 'bow wave'
  - √ Long-term goals (2013-14):
    - Provide quality submittals to address pending issues
    - Maintain deliverables and review schedules to eliminate further schedule delay
  - ✓ Next DCWG meeting proposed October, 2013



