

HLWYM HEmails

From: Dennis Galvin
Sent: Tuesday, August 17, 2004 2:28 PM
To: DDUNN@cnwra.swri.edu; DGUTE@cnwra.swri.edu; gcragno@cnwra.swri.edu; Ken Chiang; Lietai Yang; Osvaldo Pensado; VJAIN@cnwra.swri.edu; Xihua He; Yi-Ming Pan; Aladar Csontos; Bret Leslie; David Brooks; John Bradbury; Richard Codell; Tae Ahn
Cc: David Pickett; Abou-Bakr Ibrahim; Gregory Hatchett; Marissa Bailey
Subject: 8/17/04 CLST Team Meeting - Pre-Meeting Info
Attachments: CLST Team Summary 081704 .wpd; Table for TBD 6 Agreements 081704.wpd

CLST Team,

I have attached a revised table on the TBD agreements we are currently working on. I hope to add criticality related agreements in the near future.

I have also updated the summary of CLST activities. I do not plan to cover the whole summary at the Yucca Meeting but plan to use it as a resource. If possible, please review it before the meeting.

The agenda for the meeting is below. While it does not follow recently released guidelines, I plan to move quickly through the topics at the meeting

The Bridge Number for the team meeting is 1-800-638-8081 or 301-231-5399, the pass code 8971#.

Thanks,

Dennis Galvin

>>>>>>>

CLST team,

I would like to meet Tuesday 8/17/04 at 3:00 pm (NRC time) in T7C1 to discuss the following 3 topics:

1. CLST presentation to Yucca Mountain Team meeting. Because of the NMSS meeting, the CLST presentation will be next week 8/18/04

Al has prepared a good summary. Additional items from this week include:

- The issuance of the closure letter for CLST 1.07 and 1.16,
- The EDO ticket on unirradiated uranium experiments.
- The results of the Sandai Visit
- We have now received appendices N and S which provides all of the agreements associated with TBD 6

If you have additional items please be prepared to discuss them at the meeting.

2. Brief review of progress on reviewing agreements

To limit discussion, I am not interest in detailed technical discussions at this point. Technical discussions will be initiated in September as necessary as we move to write letters.

The focus should be whether the identified team has been involved and if the review is on track for the August 31 schedule. I will call on the authors:

TBD-6

Darrell Dunn: Appendices B, G, H

Al Csontos: Appendices C, D, F, U

Lietai Yang: Appendices I, J

Doug Gute: Appendix K, CLST 2.01, TBD-14 A & D Osvaldo Pensado: Appendices L and M Tae Ahn:

Appendices O, R Xihua He: Appendix P Yiming Pan: Appendix Q, T Gustavo Cragolino: Appendix V

3. Discuss plans to review new Agreements

- TBD 7 - 5 Appendices
- TBD 6 - Appendices N and S
- TBD 14 - Appendices A and D

I should have copies of TBD 7 available to the NRC staff by Monday. A summary of the new information is attached.

If you need to get bridge number let me know.

Thanks,

Dennis

>>> Aladar Csontos 08/09/04 12:09AM >>>

Hi all,

We have several items that we need to report on for the upcoming team meeting on Wednesday. CLST is the team lead report for the week and here's a list of things that we need to present to the team in Darrell and my absence while at SNL:

1) We need to provide a short 10 minute presentation on the recent NWTRB letter to DOE on delinquency induced corrosion. Tim McCartin has asked us to present it and I nominate Gustavo or Tae to make a quick presentation. We should note that Dan Bullen and Ronald Latanision both resigned before this letter was written. I don't know if that made an impact on the letter content since both seemed to champion this issue.

2) Here are a list of items to bring up at the meeting:

- NWTRB letter review
- Las Vegas audit observation by Tae last week
- Sandia Lab visit to observe the multipurpose canister drop test by Al, Yong, Darrell, and Doug
- Areva Framatome ANL fuels meeting. Quick summary: I went to the Fuel Performance Meeting between the NRC and Areva Framatome ANP in Lynchburg, VA on July 27-28. Presentations covered the descriptions of current and future BWR and PWR fuel designs, cladding corrosion issues, extended burnup experiences, and updates to the BLEU and MOX projects. Following the meeting, site visits to the Areva Framatome ANP fuel fabrication and training facilities were also conducted on July 29.
- TBD 7 came in last week and we're preparing the review
- TBD 6 review is ongoing with agreements 1.12, and 1.13, 6.02, 6.03 closing soon.
- provided input to Tim McCartin on our research projects in line with those issues described in the Nevada petition for \$14million
- EDO Ticket #G20040456 completed on spent fuel

Please add anything else. I'll be able to receive emails while on the road, so if you need clarification just email me.

Thanks,

Al

Hearing Identifier: HLW_YuccaMountain_Hold_EX
Email Number: 1575

Mail Envelope Properties (s12215e7.086)

Subject: 8/17/04 CLST Team Meeting - Pre-Meeting Info
Sent Date: 8/17/2004 2:27:48 PM
Received Date: 8/17/2004 2:28:14 PM
From: Dennis Galvin

Created By: Dennis.Galvin@nrc.gov

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MESSAGE

Size

4232

CLST Team Summary 081704 .wpd

Table for TBD 6 Agreements 081704.wpd

Date & Time

8/17/2004 2:28:14 PM

15373

42969

Options**Priority:**

Standard

Return Notification:

No

Reply Requested:

No

Sensitivity:

Normal

Expiration Date:**Recipients Received:**

CLST Team Summary (8/17/04)

Current Major Activities

- Reviewing TBD 6 Appendices, Waste Package and Drip Shield Corrosion;
- Initiating review of TBD 7- In-package Environment, Waste Form Degradation and Solubility

The CLST staff is working to provide a pathforward for TBD 6 agreements that arrived before 7/22/04 by 8/31/04. The CLST initiated the review of the remaining TBD 6 agreements and TBD 7 on 8/17/04.

The activities of the CLST team are as follows:

TBD Reviews

TBD 5 In Drift Chemical Environment

CLST staff provided feedback on closure of CLST 1.01 and other Agreements. Dave Brooks and Roberto Pabalan are continuing to finalize the closure letter.

TBD 6 Waste Package and Drip Shield Corrosion

CLST 1.07 and CLST 1.16 were closed 08/06/04, ML042030160

A draft letter has been prepared for the closure of CLST 1.12, 1.13, 6.02, and 6.03.

All agreements associated with TBD-6 have been received. 9 agreements associated with TBD-6 are ranked as high significance to waste isolation

The CLST developing a path forward on all agreements except those which just arrived by 8/31/04. The options were to identify the agreement as (1) Complete, (2) Request References (3) Perform Additional Analyses or (4) Request additional information. If the staff needs additional options, that is fine, but a clear recommendation is needed to identify resources, schedules.

A table documenting the status of the review of TBD-6 agreements is available if anyone is interested.

TBD 7 In-package Environment, Waste Form Degradation and Solubility

TBD-7 was issued 7/30/04. All agreements were provided with TBD-7. 4 agreements associated with TBD-7 are ranked as high significance to waste isolation. The CLST staff has prepared an initial plan to review the agreements.

A table documenting the status of the review of TBD-7 agreements is available if anyone is interested.

TBD 14 Low Probability Seismic Events

TBD 14 was issued 6/29/04. There is one CLST agreement identified as low significance to waste isolation associated with TBD 14. The CLST staff is reviewing this agreement concurrent with related TBD 6 agreements.

Features Events and Processes

DOE has indicated the information on FEPs will be coming "soon". (R.K. Johnson 8/17/04 email)

DOE to NRC Jun-04 and Aug-04 : DOE April 2, 2004 letter.

Criticality

Limited work has been done on nuclear criticality activities to support the review of agreements with higher significance to waste isolation.

An 1.5 page summary of nuclear criticality issues was recently prepared for the IIRSR.

The DOE has provided several criticality related reports which have been partially reviewed by the NRC. Review will proceed on work on higher significance agreements is completed.

Pre 7.01 Preclosure Criticality Process Analysis Report May-04 : DOE April 2, 2004 letter.

CLST 5.03 Screening Argument - DOE to NRC Aug-04 : DOE April 2, 2004 letter.

Other

PRE 7.02 Involves the mesh discretization and failure criterion used in DOE's finite element analysis of the waste package. Remaining concern that requires internal resolution involves strain rate effects on Alloy-22 which should be worked by the end of the week. CLST staff are also verifying the applicability of various parameters used in the CNWRA and DOE finite element models. **(Need Update)**

Fixed CNWRA Milestones: All are on schedule.

A review report on High Burn-up Spent Nuclear Fuel - Disposal Issues Received 5/27/04,
Acceptance letter sent with Comments - 7/16/04

Microbially Influenced Corrosion (MIC) Studies of Engineered Barrier Subsystem Materials
Provided 7/18/04, NRC Plans to respond by 8/20/04

Passive and Localized Corrosion of Overpack Materials Modeling and Experiments - Deferred -
No revised date set.

Conferences

2/13-17/2005 Yi-Ming Pan TMS 2005 Annual Meeting, San Francisco, California

6/1-3/2005 Darrell Dunn McMST 2005 - Joint ASME/ASCE/SES Conference on Mechanics
of Materials, Baton Rouge, Louisiana

TBD Vijay Jain Nuclear Energy Agency (NEA) IGSC group, Location to be
Determined

9/12–16/2005 Darrell Dunn International conference/symposium Materials Research Society,
Scientific Basis for Nuclear Waste Management, Ghent, Belgium

Meetings

None Currently Planned.

TPA Code

(Need Update)

Osvaldo Pensado is lead for making changes to CLST related abstractions

EBSFAIL - Engineered Barrier System Failure Abstraction

Waste Package Model

Osvaldo Pensado is developing a localized corrosion model with inhibitors. Darrell Dunn has provided Osvaldo data on inhibitors for Alloy 22. The TPA code will rely primarily on DOE assessments of chemistry as the TPA code does not track all inhibitors (only tracks chlorides and carbonates). Once the model is completed, the NRC will be involved in its review.

Drip Shield Model

Dick Codell has proposed a model for the impact of fluoride on dents. This is an offline analysis on general corrosion of the drip shield. The CLST team should provide feedback in the next several weeks.

EBSREL - Engineered Barrier System Release Abstraction

Tae Ahn reevaluated the base case model for commercial fuel and identified no changes. Vijay has updated the dissolution model for DOE spent fuel and provided release fractions to the PA team.

Other Plans

The Path Forward is essentially the same as the CNWRA Operations Plan but with somewhat more activities. No problem with either were identified.

Staffing

CNWRA Hiring - Xihua He recently joined the CLST team on the CLST team.

NRC Rotations - Yi-Ming Pan had a successful rotation 7/19-30/04.

Other Activities

Work for Others - The Work for Others project involving sump pump clogging issues is being worked at the CNWRA with input from Al Csontos at the NRC.

Recent Activities

8/9-12/04 Drop Test observation at Sandia National Laboratory. Presentation will be provided at 8/25/04 Yucca Mountain Team Meeting.

Response to ACNW (EDO Ticket) was recently completed. Associated with planned studies of the dissolution of unirradiated UO₂. Substantial information has been provided to Ruth Weiner of the ACNW on the technical basis for these studies.

07/28/04 NWTRB Letter - Presentation provided at the 08/19/04 Yucca Mountain Team Meeting.

8/2-6/04 Las Vegas audit observation - Tae Ahn participated, no significant issues

Areva Framatome ANL fuels meeting Al Csontos went to the Fuel Performance Meeting between the NRC and Areva Framatome ANP in Lynchburg, VA on July 27-28. Presentations covered the descriptions of current and future BWR and PWR fuel designs, cladding corrosion issues, extended burnup experiences, and updates to the BLEU and MOX projects. Following the meeting, site visits to the Areva Framatome ANP fuel fabrication and training facilities were also conducted on July 29.

Nevada Request for Funds- CLST provided input to Tim McCartin on research projects in line with those issues described in the Nevada petition for \$14million

CLST Documents and Agreements Status April 17, 2009 (1:23pm)

Document	Document Name	Document Date	Agreement	Rank	Review Team - Author First NRC Technical Lead (+)	Agreement Outline Due Date	First Draft Letter Date	Document Status
TBD-6 Appendix A ML033450501	Measurement of Corrosion Rates of Waste Package Materials	12/09/03	CLST 1.07 AIN-1 (High)	High	Dennis Galvin Darrell Dunn Dick Codell		03/26/04	Letter Complete 08/06/04 ML042030160
TBD-6 Appendix B ML033450501	Distribution of Stresses	12/09/03	CLST 1.13 (Low) GEN 1.01 Comment 120	Low	Darrell Dunn Al Csontos+ Tae Ahn Doug Gute		08/13/04	Draft Letter Written 08/13/04
TBD-6 Appendix C ML033450501	Rockfall and Dead-Weight Affects	12/09/03	CLST 1.14 (Medium)	Medium	Al Csontos + Tae Ahn Darrell Dunn Doug Gute Yi-Ming Pan	08/31/04		Provide Intial Response 8/13/04 References available 07/22/04
TBD-6 Appendix D ML033450501	Effects of Fabrication on the Susceptibility of Alloy-22 and Titanium Grade 7 to Corrosion and Stress Corrosion Cracking	12/09/03	CLST 1.15 (Medium)	Medium	Al Csontos + Darrell Dunn Tae Ahn Yi-Ming Pan	08/31/04		Provide Intial Response 8/13/04 References available 07/22/04
TBD-6 Appendix E ML033450501	Thermal Profile of the Waste Package Material Due to Induction Annealing	12/09/03	CLST 1.16 (Low)	Low	Dennis Galvin Darrell Dunn Dick Codell		03/26/04	Letter Complete 08/06/04 ML042030160
TBD-6 Appendix F ML033450501	Stress Measure for Assessing the Susceptibility of Various Engineered Barrier System Materials to Stress Corrosion Cracking	12/09/03	RDTME 3.18 (Low)	Low	Al Csontos + Tae Ahn Darrell Dunn Doug Gute	08/31/04		Al Csontos preparing response

CLST Documents and Agreements Status April 17, 2009 (1:23pm)

Document	Document Name	Document Date	Agreement	Rank	Review Team - Author First NRC Technical Lead (+)	Agreement Outline Due Date	First Draft Letter Date	Document Status
TBD-6 Appendix G ML033450501	Quantification of the Resistance of Alloy 22 and Titanium Grade 7 to Environmentally Assisted Cracking Phenomena	12/09/03	CLST 1.12 (Medium) Gen 1.01 Comment 119	Medium	Darrell Dunn Tae Ahn Al Csontos+		08/13/04	Draft Letter Written 08/13/04
TBD-6 Appendix H ML033450501	Expected Behavior of Alpha Titanium Alloys	12/09/03	CLST 6.02 AIN-1 (Low) CLST 6.03 AIN-1 (Low)	Low	Darrell Dunn Al Csontos + Tae Ahn		08/13/04	Draft Letter Written 08/13/04
TBD-6 Appendix I ML041600043	Surface Analysis of Corrosion Test Specimens for Dealloying	05/28/04	CLST 1.02 (Medium)	Medium	Lietai Yang Ken Chiang Tae Ahn + Gustavo Cragnolino	08/31/04		Provide Initial Response 8/31/04
TBD-6 Appendix J ML041600044	Waste Package Effects of Silica on Corrosion	05/28/04	CLST 1.06 AIN-1 (Medium) ML030270065 (NRC AIN letter) ML021920507 (DOE 07/05/02 Submittal)	Medium	Lietai Yang Kien Chiang Tae Ahn + Gustavo Cragnolino	08/31/04		Provide Initial Response 8/31/04
TBD-6 Appendix K ML041910139	Point-Loading Rockfall Evaluations and the Effects of Seismic Excitation on the Drip Shield and Waste Package	07/02/04	CLST 2.02 (Low) CLST 2.08 (High) CLST 2.09 (Low)	High	Doug Gute Al Csontos + Louis Ibarra Darrell Dunn Buck Ibrahim Tae Ahn	08/31/04		Provide Initial Response 8/31/04

CLST Documents and Agreements Status April 17, 2009 (1:23pm)

Document	Document Name	Document Date	Agreement	Rank	Review Team - Author First NRC Technical Lead (+)	Agreement Outline Due Date	First Draft Letter Date	Document Status
TBD-6 Appendix L ML041590376	Waste Package and Drip Shield Stress Corrosion Cracking	05/28/04	TSPAI 3.03 AIN-1 (Low)	Low	Osvaldo Pensado Al Csonotos + Tae Ahn Doug Gute Yi-Ming Pan	08/31/04		Provide Initial Response 8/31/04
TBD-6 Appendix M ML041600046	Corrosion Rates, Uncertainty and Variability Determination, and Propagation of Uncertainty	05/28/04	TSPAI 3.01 (High) TSPAI 3.04 (Low) TSPAI 3.05 (Low)	High	Osvaldo Pensado Dick Codell Tae Ahn + Darrell Dunn	08/31/04		Provide Initial Response 8/31/04
TBD-6 Appendix N ML042090145	Waste Package and Drip Shield Corrosion Materials: Passive Film Characteristics, Growth, and Stability	07/22/04	CLST 1.08 (High) CLST 1.09 (High)	High				Available 07/27/04
TBD-6 Appendix O ML041810019	Critical and Corrosion Potentials for Alloy 22	06/24/04	CLST 1.10 (High) CLST 1.11 (High)	High	Tae Ahn + Gustavo Cragolino Lietai Yang Darrell Dunn Dick Codell	08/31/04		Provide Initial Response 8/31/04
TBD-6 Appendix P ML041810020	Waste Package: Corrosion of Titanium Grade-7	06/24/04	CLST 6.01 (Medium)	Medium	Xihua He Al Csonotos * Dick Codell	08/31/04		Provide Initial Response 8/31/04

CLST Documents and Agreements Status April 17, 2009 (1:23pm)

Document	Document Name	Document Date	Agreement	Rank	Review Team - Author First NRC Technical Lead (+)	Agreement Outline Due Date	First Draft Letter Date	Document Status
TBD-6 Appendix Q ML041940417	Waste Package: Fabrication, Aging, and Phase Stability Effects	07/08/04	CLST 2.04 (High) CLST 2.05 (High) GEN 1.01 Comment 7 Note: CLST 2.07 (Medium) issues transferred to CLST 2.07 - ML030270065 (NRC AIN letter)	High	Yi-Ming Pan Al Csontos + Darrell Dunn Dick Codell	08/31/04		Provide Initial Response 8/31/04
TBD-6 Appendix R ML041900508	Continued Testing in Long Term Corrosion Test Facility	06/30/04	CLST 1.04 (High) Note: CLST 1.05 (High) issues transferred to CLST 1.04 - ML030270065 (NRC AIN letter)	High	Tae Ahn + Gustavo Cragolino Lietai Yang Darrell Dunn Dick Codell	08/17/04		Provide Initial Response 8/31/04
TBD-6 Appendix S ML042090150	Waste Package and Drip Shield Materials Analysis	07/22/04	CLST 2.03 AIN-1 (Medium)	Medium				Available 07/27/04
TBD-6 Appendix T ML041900513	Microstructural and Compositional Variations of Alloy 22	06/30/04	PRE 7.03 (Medium)	Medium	Yi-Ming Pan Al Csontos + Tim Kobetz Darrell Dunn	08/31/04		Provide Initial Response 8/31/04
TBD-6 Appendix U ML041810021	Waste Package: Mechanical Properties of Alloy 22 Welds	06/24/04	PRE 7.05 (Medium)	Medium	Al Csontos + Yi-Ming Pan Tim Kobetz Darrell Dunn	08/31/04		Provide Initial Response 8/31/04
TBD-6 Appendix V ML041810023	Waste Package - Corrosion Rate Measurements on Alloy 22	06/24/04	CLST 1.03 (Medium)	Medium	Gustavo Cragolino Lietai Yang Tae Ahn +	08/31/04		Provide Initial Response 8/31/04

CLST Documents and Agreements Status April 17, 2009 (1:23pm)

Document	Document Name	Document Date	Agreement	Rank	Review Team - Author First NRC Technical Lead (+)	Agreement Outline Due Date	First Draft Letter Date	Document Status
Key Technical Issue Container Life and Source Term CLST 2.01- Transmittal Letter ML041600049	Key Technical Issue Container Life and Source Term CLST 2.01- ML041600049, Drip Shield Structural Response to Rock Fall - ML014680398	05/28/04	CLST 2.01 (Low)	Low	Doug Gute Al Csontos + Yong Kim	08/31/04		Document separate from TBD-6, but can be reviewed with TBD-6
TBD-7 Appendix A ML042170450	In-Package Chemistry Environment	07/30/04	CLST 3.02 AIN-1 (High) ENFE 3.03 (High) TSPAI 3.14 (Medium) GEN 1.01 Comments 116, 126	High	Vijay Jain Roberto Pabalan			Available 08/05/04
TBD-7 Appendix B ML042170450	Effects of Radiolysis and Engineered Materials on In-Package Chemistry	07/30/04	CLST 3.03 AIN-1 (Medium) CLST 3.04 AIN-1 (Low)	Medium	Vijay Jain Lietai Yang			Available 08/05/04
TBD-7 Appendix C ML042170450	Demonstration of the Adequacy of the In-Package Chemistry Model Results	07/30/04	CLST 3.05 (High) ENFE 3.04 (High)	High	Vijay Jain Roberto Pabalan			Available 08/05/04

CLST Documents and Agreements Status April 17, 2009 (1:23pm)

Document	Document Name	Document Date	Agreement	Rank	Review Team - Author First NRC Technical Lead (+)	Agreement Outline Due Date	First Draft Letter Date	Document Status
TBD-7 Appendix D ML042170450	Localized Corrosion and Stress Corrosion Cracking in Cladding	07/30/04	CLST 3.06 AIN-1 (Medium) CLST 3.07 (Medium) CLST 3.08 AIN-1 (Medium) CLST 3.09 AIN-1 (Low) GEN 1.01 Comment 124	Medium	Gustavo Cragnolino			Available 08/05/04
TBD-7 Appendix E ML042170450	Total System Performance Assessment Implementation of In-Package Chemistry	07/30/04	TSPAI 3.08 (Low)	Low	Osvaldo Pensado			Available 08/05/04
TBD-14 Appendix A ML041880126	Rockfall and Vibratory Loading Effects on the Mechanical Failure of Cladding and Methodology Used to Implement the Effects of Seismic Effects on Cladding	06/29/04	CLST 3.10 (Low) TSPAI 3.06 (Low)	Low	Doug Gute Al Csontos +	08/31/04		Provide Initial Response 8/31/04
TBD-14 Appendix D ML041880126	Documentation of Seismic Fragility Curves and Seismic Risk Analyses	06/29/04	SDS 2.04 AIN-1 (Low)	Low	Doug Gute Al Csontos +	08/31/04		Expected to provide significant supporting role to SDS

CLST Documents and Agreements Status April 17, 2009 (1:23pm)

Document	Document Name	Document Date	Agreement	Rank	Review Team - Author First NRC Technical Lead (+)	Agreement Outline Due Date	First Draft Letter Date	Document Status
TBD-5 Appendix A ML033520270	Credible Range of Brine Water Chemistry and Consistency Between Corrosion Testing Environments and Models	11/30/03	CLST 1.01 (High) TSPAI 3.12 (High) TSPAI 3.13 (Medium) GEN 1.01 Comments 50, 113, 118, 122, 124	High	Dave Brooks Bobby Pabalan	08/31/04		Response in Review

Explanation of Table

Staff is preparing the initial response to the Agreements by August 31, 2004. At a minimum, this should include the information described below. At the discretion of each team, the team may provide more complete information such as draft letters, requests for additional information, or justification for reference requests. If reference requests are expected to be made, these should be made as soon as possible.

Please do not respond to general emails when communicating among the teams. However, please cc the CLST team lead on emails concerning agreements and notify the CLST team lead of teleconferences concerning the agreements. This will be the primary means of monitoring progress on preparing initial responses by August 31, 2004.

Responsibilities:

Author :

The Author is responsible for preparing the agreement summary and the first draft letter by the agreed upon date. The author is also responsible for insuring input has been obtained from the listed team members, especially the NRC technical lead. The author should forward to the CLST team lead or the Acting CLST Team the Agreement Summary or first draft letter as appropriate. (CNWRA may first forward their submittals to the CNWRA CLST team lead, who will then forward it to the NRC CLST team lead, at the discretion of the CNWRA)

NRC Technical Lead:

The NRC technical lead is responsible for ensuring the NRC Regulatory perspective has been addressed by the documents. Therefore the NRC Technical Lead needs to see the submittal before it is submitted to the CLST team lead.

Agreement Outline:

Purpose: (1) Summarize the basis for an intended action prior to spending substantial time and resources are spent on an intended action. (2) If a letter will be written, the outline should identify the main points to be made in the letter. This should help avoid substantial rewrites of letters. (3) Being brief and at a high level, provide the capability to quickly identify the most important points of an issue to the CLST Team in a form that can be shared with Management.

Form:

Agreement Number: List the Agreement Number

Wording of the Agreement: Provide the wording of the Agreement

Recommendation: Identify if the Agreement is to be Complete, Request References, Perform Additional Analyses, Request Additional Information

CLST Documents and Agreements Status April 17, 2009 (1:23pm)

Complete - based on the information in the Technical basis document, the appendices, an other public information, the NRC can close the agreement with no further action

Request References - Agreement can not be closed based solely on publically available information. This would be the case if DOE relies heavily upon non-public references in an appendix.

Perform Additional Analyses - The staff believes the agreement may be closed but additional internal analyses are needed to confirm this. (The analyses may be done by either NRC or CNWRA staff or jointly)

Request Additional Information - DOE has not addressed the issue covered by the agreement. It may be necessary to request references or perform additional analyses to come to this conclusion.

Summary of DOE Information: Provide bullets of main information provided in the appendices

Basis for NRC Action

Closed - Provide bullets of main reasons for closing agreement(s). May be based on risk arguments or published NRC or CNWRA results.

Request References - List required references. For each reference provide a brief basis (a paragraph or so) for requesting the reference This basis should identify why certain information is needed to complete the review of the agreement and why the expected information is in the listed reference.

Perform Additional Analyses - Identify the analyses the staff will perform in bullet form. Include the expected outcome of the analyses.

Request Additional Information - Provide bullets of kind of additional information that is needed for closing the agreement (s) and a brief basis.

First Draft Letters: The draft letter should follow the format of recently approved closure letters (ML041170095) or the closure letter of CLST 1.07 and 1.16, which is in concurrence. Letters will be written when the agreement will be closed or additional information is requested. For agreements where the Agreement Outline indicates the agreement can be readily closed, the target is to produce first draft letters 3 weeks after the outline. For a high risk agreement that can be readily closed, the target date for the draft letter would be September 7, 2004.