

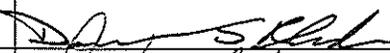
BSC

Criteria/Basis Change Notice

1. QA: QA
2. Page 1 of 2

Complete only applicable items.

3. Document Identifier: 000-3DR-MGR0-00300-000		4. Rev.: 002	5. CBCN: 001
6a. Title: <i>Basis of Design for the TAD Canister-Based Repository Design Concept</i>		6b. Safety Classification of SSC: ITS / Non-ITWI	
7. Reason for Change: <i>Basis of Design for the TAD Canister-Based Repository Design Concept (BOD) Criterion 14.2.3.1.1 must be changed to represent changes in the Preclosure Nuclear Safety Design Bases, 000-30X-MGR0-03500-000-000, that apply to the Transport and Emplacement Vehicle (TEV). These changes are the result of finalizing the NSDB criteria and have been received from PCSA via email in advance of the NSDB signoff copy. The BOD still carries a TBV for the NSDB document. BOD Criteria 3.2.3.1.4 for rail interfaces with the TEV in the IHF and 4.2.3.1.4 for interfaces with the TEV in the CRCFs do not require change. This advanced notice is necessary to allow completion of the SSF TEV design products.</i> <i>Revisions to SSF TEV engineering products are in progress using this best available NSDB information. The impact to Engineering is negligible. The impact to the BOD is this CBCN. The TBV on the BOD will be cleared before LA submittal. Impacts to the LA are necessary and are in progress to keep up with the correct engineering product references.</i>			
8. Supersedes Change Notice:		<input type="checkbox"/> Yes If, Yes, Change Notice: _____ <input checked="" type="checkbox"/> No	
9. Disciplines/Organizations Affected by this Change:			
Subsurface Facilities Project Engineer <i>ALS</i>	Mining Discipline Engineering Manager <i>RLS</i>	Thermal/Structural Analysis Discipline Engineering Manager <i>W 3/4/08</i>	
Mechanical Discipline Engineering Manager <i>W</i>	PreClosure Safety Analysis Manager <i>W</i>	LNS Document Review <i>W 3/6/08</i>	
		ESH Review Coordinator <i>W</i>	
		If 6b is ITS/ITWI: Quality Assurance: <i>W</i> Quality Assurance <i>W</i>	
10. Description of Change: Revise the following criterion as follows: 14.2.3.1.1 TEV The emplacement and retrieval/drip shield installation system's TEV shall be designed to (a) protect against derailment of a TEV during loading of a waste package, (b) protect against a tipover of a TEV, (c) protect against ejection of the waste package from the shielded enclosure of the TEV, (d) protect against TEV runaway, and (e) protect against direct exposure of personnel (safety functions). <ul style="list-style-type: none"> The mean frequency of derailment of the TEV at the loadout station due to the spectrum of seismic events shall be less than or equal to 1.0×10^{-04} /yr [while in either the IHF or CRCFs]. The mean frequency of tipover of the TEV due to the spectrum of seismic events shall be less than or equal to 2.0×10^{-06} /yr [while in either the IHF or CRCFs, outside the IHF and CRCFs, or in the Subsurface Facility]. The mean frequency of ejection of a waste package from the TEV due to the spectrum of seismic events shall be less than or equal to 2.0×10^{-04} /yr [while in the IHF, in the CRCFs, outside the IHF and CRCFs, or in the Subsurface Facility]. The mean probability of runaway of a TEV that can result in a potential breach of a waste package shall be less than or equal to $5-9 \ 2.0 \times 10^{-09}$ per transport [of a waste package] [while outside the IHF, outside the CRCFs, or in the Subsurface Facility]. The mean probability of inadvertent TEV door opening shall be less than or equal to 1.0×10^{-07} per transport [of a waste package] [while outside the IHF, outside the CRCFs, or in the Subsurface Facility]. <i>[Preclosure NSDB (BSC 2008 [DIRS 184200]), Appendix B, Table B-1, Items HE.IH.01 through 03 for the IHF; Appendix D, Table D-1, Items HE.CR.01 through 03 for the CRCFs; and Appendix G, Table G-1, Items HE.SS.01 through 04 for the Subsurface Facility. Runaway criteria don't apply to the TEV while within the IHF or CRCFs.]</i>			

11. REVIEWS AND APPROVAL			
Printed Name	Title	Signature	Date
11a. Preparer: David S. Rhodes	Discipline Engineering Manager		3-6-08
11b. Concurrence: Richard Foster	Manager of Discipline Engineering		3-6-08
11c. Concurrence: N/A	Project Engineering Manager	N/A	N/A
11d. Approved: Barbara Rusinko	Engineering Manager		3/6/08