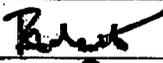
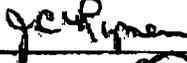
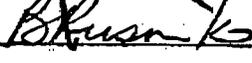


BSC

Calculation/Analysis Change Notice

1. QA/QA
2. Page 1 of 2

Complete only applicable items.

3. Document Identifier: 000-00C-MGR0-03600-000		4. Rev.: 00A	5. CACN: 001
6. Title: Nuclear Criticality Calculations for Canister-Based Facilities - Commercial SNF			
7. Reason for Change: Typographical errors were noted subsequent to document issue. These errors are identified in CR 11857.			
8. Supersedes Change Notice:		<input type="checkbox"/> Yes If Yes, CACN No.: _____ <input checked="" type="checkbox"/> No	
9. Change Impact:			
Inputs Changed: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Results Impacted: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Assumptions Changed: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Design Impacted: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
10. Description of Change:			
<p>The typographical errors noted subsequent to document issue are listed in a table on page 2. For each typographical error listed, a description is provided of the associated correction.</p> <p>The typographical errors listed in page 2 have no impact on the document assumptions, calculations, results and conclusions.</p>			
11. REVIEWS AND APPROVAL			
Printed Name		Signature	Date
11a. Originator: B. A. Matthews			03/11/2008
11b. Checker: J. C. Ryman			03/11/2008
11c. EGS: A. A. Alsaed			3/11/2008
11d. DEM: M. R. Wisenburg			3/11/2008
11e. Design Authority: B. Ruzinko			3/11/08

Item	Typographical Error Description	Typographical Error Correction
1	Reference 2.1.3 is not included in the DIRS report for the document.	<p>Reference 2.1.3 is included in Section 2.1 (Procedures/Directives) but should have been included in Section 2.2 (Design Input). In addition, Reference 2.1.3 should have been included in the DIRS report for the document. The DIRS entries for Reference 2.1.3 (DIRS number 182214) should have been:</p> <ul style="list-style-type: none"> • Document Input: BSC (Bechtel SAIC Company) 2007. Preclosure Criticality Analysis Process Report. TDR-DSO-NU-000001 REV 02. Las Vegas, Nevada: Bechtel SAIC Company. ACC: DOC.20071023.0011. • Specifically used from: Figure 3-1 • Specifically used in: Section 4.3, Figure 4-1 • Input Description: Reference for the preclosure criticality safety analysis process • Input usage: Indirect Input • Input category: N/A • Q status: N/A • TBV/TBD status: N/A
2	The DIRS number is not included in Section 2.2 for Reference 2.2.19.	The DIRS number for Reference 2.2.19 is 163407. This number should have been listed at the end of the reference listing for Reference 2.2.19 in Section 2.2.
3	There is a reference to footnote 3 in Table 1, however no footnote 3 exists.	Footnote "3" is actually footnote "c", which is included at the end of the table. The penultimate row of the table (column 1) should have cited footnote "c" instead of footnote "3".
4	The "U mass – M _U (kg per assembly)" value in column 3 of Table 3 is missing.	<p>The U Mass (kg per assembly) for the 7x7 assembly type evaluated is not used. Instead the actual UO₂ mass, listed in column 3 of the penultimate row of the table, is used. Therefore, the missing data in column 3 of row 4 is intentional. However, the erroneous reference to footnote "a" in this otherwise empty cell should have been deleted and, for clarity, the cell should have included the words "Not Used".</p> <p>As a related matter, the penultimate row of the table (column 3) should have cited footnote "a" instead of footnote "(1)".</p>
5	The title of Section 3.2.6 should read "Zinc Cross Section Substitution".	The title of Section 3.2.6 currently reads "Aluminum Cross Section Substitution". The title of Section 3.2.6 should have read "Zinc Cross Section Substitution".
6	The isotope " ¹²³⁸ U" in Table 18 should read " ²³⁸ U".	Table 18 incorrectly lists Uranium-238 as " ¹²³⁸ U". The isotope should have been listed as " ²³⁸ U".
7	The "Confirmation Status" section of Sections 3.1.1 and 3.1.2 incorrectly refer to the title of Reference 2.1.7 as "Desktop Information for Using CalTrac"	The correct title of Reference 2.1.7 is "Desktop Information for Using CalcTrac" (i.e. "CalcTrac" should have been used instead of "CalTrac").
8	The title of Ref. 2.1.5 in Section 4.1 is incorrectly stated.	In section 4.1, the title of Ref. 2.1.5 should read "Quality Management Directive" instead of "Quality Assurance Requirements and Description". Also, "(QARD)" should have been deleted.
9	The text "Ref. 2.2.2" in Section 4.2.1 should be included in parenthesis.	The penultimate sentence of the 2 nd paragraph of section 4.2.1 should have included "Ref. 2.2.2" in parenthesis; i.e. "(Ref. 2.2.2)".
10	The title of Ref. 2.1.3 in Section 4.3 is incorrectly stated.	In Section 4.3, the title of Ref. 2.1.3 should read "Preclosure Criticality Analysis Process Report" instead of "Preclosure Criticality Analysis Report".