






CROFT

SARP LS 3979A Revision History (Package Docket No. 07109337)

Document Reference	CTR 2025-04	Issue B
Date	19/03/2026	
File Name	CTR 2025-04-B-v1-SARP LS 3979A Revision History (Package Docket No. 07109337).docx	
Client Reference		

Document Approval and Change History			
Title		SARP LS 3979A Revision History (Package Docket No. 07109337)	
Project Number			
Document Reference		CTR 2025-04	
Revision	Issue A	Date 26 August 2025	
Basis and details of change: (Refer to WI01-03 for document review/change instructions and responsibilities) First Issue			
Will this change affect a package approval?		<input type="checkbox"/> Yes (If Yes, see CAP 10-04 or CAP 10-07 and note that document approval is required from Responsible Officer. If No, approval from Responsible Officer is not required) <input type="checkbox"/> No	
Any additional comments:			
Note: All signatories must be independent of each other			
	Compiled	Checked	Approved
Name	A L Ferguson	G Longman	M B Johnson
Signature			
Revision	Issue B	Date 19 March 2026	
Basis and details of change: (Refer to WI01-03 for document review/change instructions and responsibilities) Response to RAI's on Rev. 9 Reference to 0.25 impurity assessment added Drawings updated Reference to ISO 12807 removed.			
Will this change affect a package approval?		<input type="checkbox"/> Yes (If Yes, see CAP 10-04 or CAP 10-07 and note that document approval is required from Responsible Officer. If No, approval from Responsible Officer is not required) <input checked="" type="checkbox"/> No	
Any additional comments:			
Note: All signatories must be independent of each other			
	Compiled	Checked	Approved
Name	A L Ferguson	G Longman	M B Johnson pp
Signature			

Contents

1	Introduction	1
2	SARP 3979A Rev. 10.....	1
3	References.....	3
4	SARP 3979A Application history.....	4

Tables

Table 1 - SARP 3979A Safety Impact Assessment.....	2
--	---

1 Introduction

The intention of this document is to provide a collation of the revisions performed on Safety Analysis Report for Packaging (SARP) Safkeg–LS Design No. 3979A (document file reference CTR2008/10) [1], Rev. 9 to Rev. 10.

Package Docket No. 07109337.

The revisions are addressed in reverse chronological order, with the latest revision addressed first and pdf versions of historical revisions provided in Section 4.

2 SARP 3979A Rev. 10

The impact on the SARP assessment relating to the changes introduced in Rev. 10 is considered and assessed in Table 1, addressing each change performed. The main changes in Rev.10 are:

- Reference the approved 0.25 A₂ impurity limit for solid contents (Approved under certificate USA/9337/B(U)-96 Rev. 6)
- Remove references to the alternative leakage testing standard, ISO 12807, as agreed (Ref. conversation record (in ADAMS at Accession No. ML26072A319)
- Update drawing 1C-9012 to depict missing weld representation.

The conclusion of the assessment performed is that there are no safety issues related to this change proposal, all assessments performed in the SARP employ bounding limits in terms of structural, thermal, containment, shielding and pressure assessments.

Table 1 - SARP 3979A Safety Impact Assessment

SARP Section	Subject	Reference location	Safety Impact	Justification/Comments
General	SARP Revision	All sections updated to Rev. 10	None	Response to NRC observations
Section 0				
Section 0.4	References updated	Page 0-7 and 0-8, Section 0 drawing issue status, Section 1.2.2.3 impurity text added.	None	Conversation record (attached) in ADAMS at Accession No. ML26072A319. Approved under certificate USA/9337/B(U)-96 Rev. 6
Section 0.5.1	History record updated	Page 0-12	None	
Section 1				
1.2.2.3	Impurities assessment and approved limit referenced	1.2.2.3, 4 th para, page 1-13	None	Approved under certificate USA/9337/B(U)-96 Rev. 6
1.3.1	References [1.9] and [1.10] added relating to approved 0.25A ₂ impurity limit	1.3.1, page 1-8	None	Approved under certificate USA/9337/B(U)-96 Rev. 6
Section 7				
7.1.3	Reference to ISO 12807 removed	Item 1), page 7-3	None	
7.5.1	Reference [7.5] on ISO 12807 removed	Page 7-6	None	
Section 8				
8.1.4	Reference to ISO 12807 removed	1 st and 2 nd para, page 8-3	None	
8.2.2.1	Reference to ISO 12807 removed	1 st para, page 8-6	None	
8.2.2.2	Reference to ISO 12807 removed	1 st para, page 8-6	None	
8.2.3.3	Reference to ISO 12807 removed	Item 7), page 8-8	None	
8.3	Reference [8.4] on ISO 12807 removed	Page 8-10	None	

3 References

- [1] Croft Associates Ltd, "CTR 2008/10, Safety Analysis Report for Packaging, Safkeg-LS Design No. 3979A, Package Docket No. 07109337".
- [2] IAEA Safety Standard, "Regulations for the safe Transport of Radioactive Material 2012 Edition, Specific Safety Requirements No SSR-6 (Rev.1)," IAEA, 2018.

4 SARP 3979A Application history

CTR 2008/10: SARP Revision	Date	Change Documentation Record	Summary	Comments
0	30 July 2006	First submission		
1	31 March 2010	CTR 2010/05 Issue A	Addressing RAI comments of 26 February 2010	Clarification of contents, solid, liquid and gas, FEA discussions.
2	30 September 2010	CTR 2010/08 Issue A	Response to the RAI dated July 30, 2010	Clarification of masses, FEA results, bolt loads, seal specifications and tests,
3	30 March 2012	CTR 2012/06 Issue A	Resubmittal. Manufacturing specification updates and FEA corrections	Drawing updates following manufacture. Correction of reported 'g' values during testing, updated FEA report. Clarification of seal material, EP and EPDM the same specification.
4	05 September 2012	CTR 2012/10 Issue A	Response to NRC RAI comments of 2012-08-03	QA component categorisation, clarification of structural codes.
5	16 April 2015	CTR 2015/06 Issue A	Resubmittal. New contents added	To allow a Bi-210/Po-210 Target, to be carried in the steel insert, as listed in Contents Type 3.
6	17 July 2015	CTR 2015/06 Issue B	Response to NRC RAI comments of ???	Alternative stud locking compound, dose rate conversion factors corrected (CTR 2015/10).
7	17 December 2015	None, Certificate renewal request.	However, Rev. 7 of The SARP (CTR 2008/10) submitted.	Some documents presented during the previous RAI process where not included in the SAR, therefore the appropriate pages of the SAR were updated to include all the previously reviewed and approved documentation.
8	19 November 2021	CTR 2021/22 Issue A	Reduction of the NCT seal test temperature specified in Section 8 of the SARP from 150°C to 130°C	Justification addressed in CTR 2021/24 Issue A: LS 3979A (3980) O-ring Seal Thermal Tests.
9		CTR 2025-04 Issue A	New nuclides added for insert 3983, alternative bolt material and shield plug machined rather than cast	Justification addressed in CTR 2021/04 Issue A of this document