Chapters and Tasks for the Final Report of the IAEA CRP Reference Database for Neutron Activation Analysis

The following chapters will be included:

- 1. Introduction (taken from CRP proposal documentation), MAK, 1 Feb 2009
- 2. Summary of proficiency tests
 - a) Peak area determination, MB, 1 Feb 2009
 - b) Efficiency curve exercise, ZR, 31 May 2009
 - c) SMELS analysis, MA, MAK, 1 Feb 2009
 - d) Conclusions, All, 30 June 2009
- 3. Recommendations for experimental procedures (inc. software use and FDC's recommendations on additional monitor materials), MB, 1 March 2009
- 4. Newly measured data and validation (a-c, ZR, SJ, RJ/AT, XL) 1 March 2009
 - a) Efficiency curve determination
 - b) Neutron spectrum characterisation
 - c) k_0 , Q_0 measurements, FDC, 30 March 2009
 - d) Validation against reference materials, MB, 15 April 2009
- 5. Comparison of k_0 , σ_0 , σ_γ , half-lives, $E\gamma$, $P\gamma$ (EGAF), RBF, 1 June 2009
- 6. Comparison of neutron energy dependent cross section data and Q₀, AT, 1 June 2009
- 7. Conclusions/recommendations, All, 30 June 2009
- 8. Appendix: k₀-IAEA software improvements resulting from the CRP, MB, 1 Feb 2009

Tasks:

Delivery date	Participant	Task
1 March 2009	ZR/SJ	Report k ₀ values
1 March 2009	AT	Report on new Q ₀ , E _r
30 March 2009	FDC	Calculate k ₀ values (from these
		Q_0 values)
15 April 2009	MB	Validate these k ₀ values against
		reference materials already
		measured at TU Delft, including
		SMELS
1 June 2009	RBF	Compare k ₀ values with the
		contents of EGAF