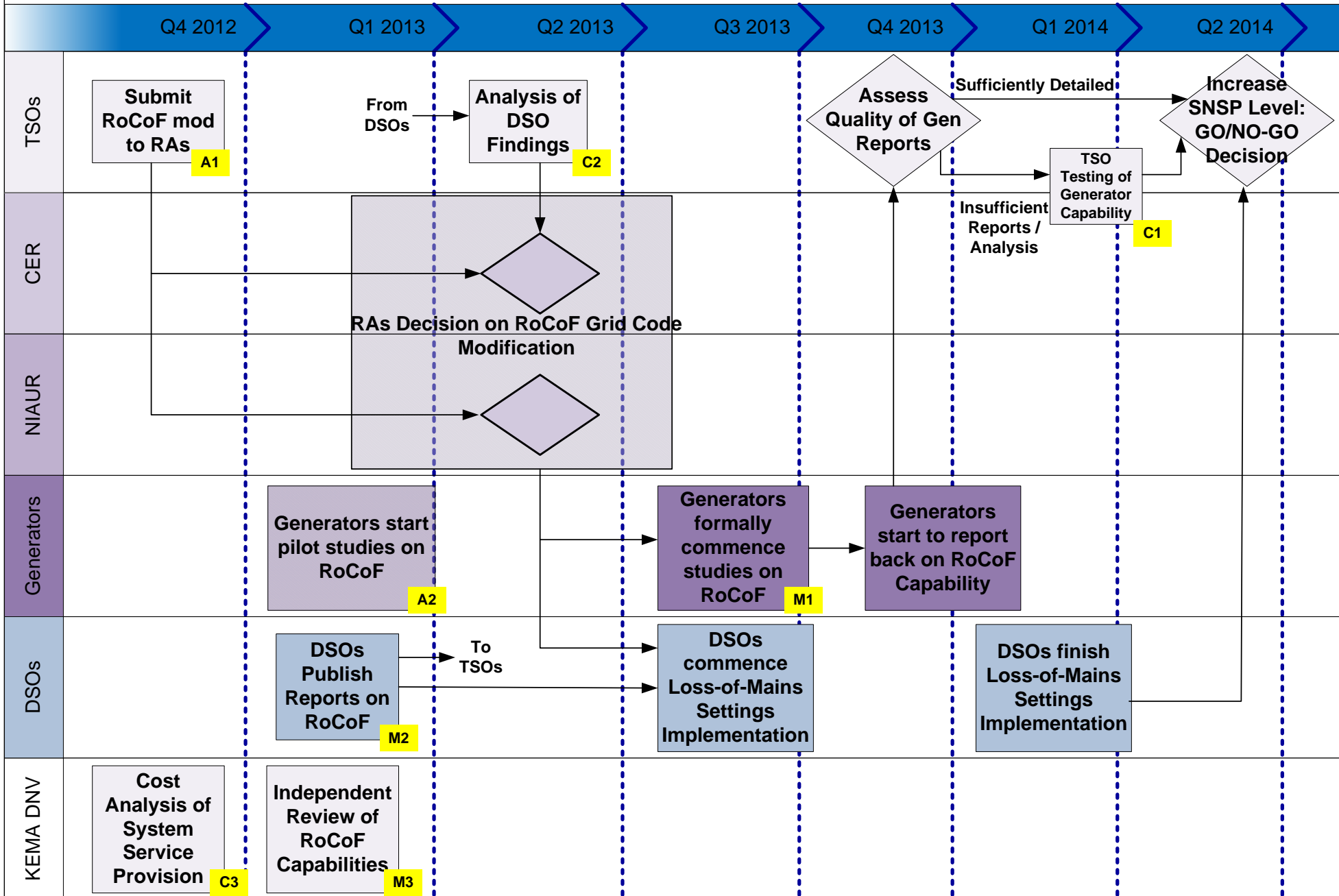




DS3 RoCoF Implementation Plan

December 2012

Implementation of Higher Rate of Change of Frequency Standards



Notes

The diagram outlines the TSOs' current expectation of how the RoCoF issue will be progressed. Please note the following:

Dependencies:

There are 2 critical dependencies to the plan:

- The DSOs complete their RoCoF studies in a timely manner and provide formal notification of this to the TSOs
- The Generators complete their RoCoF studies in a timely manner and provide formal notification to the TSOs

Risks

There are 3 significant risks to the achieving the stated outcomes in the stated timeline.

	Risks	Mitigation (M)	Contingency (C)
1	The Generators following their studies cannot robustly confirm they will be compliant with the standard	(M1) Get the studies completed as soon as possible with independent oversight	(C1) Following the reports proceed to complete a degree of testing on generators who cannot robustly confirm compliance
2	The DSOs cannot materially meet the requirements without compromising their loss of mains protection quality	(M2) Get the studies completed as soon as possible	(C2) Following the reports engage with the DSO to understand why there are issues and work with them to manage
3	That there is a material reason why the generators cannot comply.	(M3) Provide best in class information and independent assessment of ability	(C3) Explore avenues for innovation in System Services review.

Issues

	Issue	Action (A)
1	Generators are unwilling to begin any examination of the RoCoF capability of their units until there is clarity on the financial recovery mechanism to recover the cost of these studies.	TSOs to formally submit Grid Code changes to the Regulatory Authorities for consideration and decision
2	It is unclear how long the studies will take with estimates from a number of months to two years being proposed.	Generators to start pilot studies, with independent oversight, as soon as possible to explore true timeline