

DRAFT

PRE-DECISIONAL

01/19/2016

50.46c Implementation Plan

Plant Name: Plant name and unit number {*Calvert Cliffs Nuclear Power Plant Unit 1*}

Compliance Level of Effort Category: Level I, II, or III {*Level III*}

LAR Submittal Date: Projected date {*November 1, 2020*}

Implementation Date: Projected date {*January 31, 2021*}

Commented [KJ1]: To be discussed with NRC OGC.

Revision History:

Revision	Description of Changes	Date of revision
00	{ <i>Initial plan</i> }	{ <i>June 2017</i> }

If a mixed, vendor core exists, the following information should be provided separately for each fuel vendor.

Reactor Fuel Design:

- Complete table(s) for each fuel type.

Batch	Primary or Reinsert
Manufacturer(s)	AREVA, Westinghouse, GNF, etc
Design(s)	Bundle design { <i>CE14HTP</i> }
Cladding Alloy(s)	Alloy { <i>M5</i> }

ECCS Performance Analytical Limits:

- Complete table(s) for each fuel type.

Analytical Limit	Value	Status
PQD Analytical Limits	RG 1.224 Figure 2 or reference vendor topical report { <i>RG 1.224 Figure 2</i> }	Approved / Available for use, under review with projected date of approval, or under development with projected date of submittal { <i>Available for use</i> }
Breakaway Analytical Limits	Reference vendor program	{ <i>Under review, Dec. 2016</i> }

ECCS Performance Evaluation Models:

- Complete table(s) for each fuel vendor set of analytical models.

Model	Value	Status
Hydrogen Model	Reference appropriate topical reports, supplements and revision levels or RG 1.224 value.	Approved / Available for use, under review with projected date of approval, or under development with projected date of submittal <i>{Available for use}</i>
SBLOCA	Reference appropriate topical reports, supplements and revision levels. <i>{EMF-2128, Rev.0}</i>	<i>{Approved}</i>
LBLOCA	Reference appropriate topical reports, supplements and revision levels. <i>{EMF-2103, Rev.3 as supplemented by EMF-5000, Rev.0}</i>	<i>{Under development, June 2018}</i>

ECCS Performance Demonstration:

- Clearly define analytical models and methods, planned updates to these methods, and the scope of reanalysis.
- Identify any partitioning of the compliance demonstration
- Identify any proprietary analytical limits or methods in [brackets]
- Describe treatment of mixed core fuel types and analytical methods
- Describe any supporting LARs (e.g. earlier transition to new methods)

{SBLOCA

No new accident simulations will be performed. Existing EM and break spectrum sufficient to identify most limiting breakaway oxidation condition. Integral time-at-temperature will be re-baselined using CP correlation for comparison to RG 1.224 analytical limits.}

{LBLOCA

Complete break spectrum will be performed using new EM.}

License Amendment Request:

- Provide justification for requested LAR submittal date
- Provide justification for implementation date
 - Identify all precursors and critical path items
 - Identify any unique circumstances or parallel activities (e.g. fuel change, plant modifications)
- Provide earliest possible date for LAR submission

{50.46c LAR will be aligned with Cycle 27 to allow 3rd batch of AREVA CE14HTP with M5 cladding. Also, awaiting NRC approval of EMF-2103 Rev.4 and new LBLOCA analysis. Based upon schedule for new analysis, earliest possible date of submittal is February 2020.}

Points of Contact:

- Provide name, telephone, and email of responsible regulatory/licensing contact.