

Revision to IMC 0609 Appendix H

Containment Integrity Significance Determination Process

The revision to Appendix H is in progress and projected to be issued by the end of April 2020.

The reason for the revision is to update Appendix H for the AP1000 design.

Appendix H was previously revised in February 2019, so this is a focused update for AP1000.

Revision to IMC 0609 Appendix H

The current approach on how App H will be modified for the AP1000.....

For type A findings (findings that affect both CDF and LERF)

- It will be treated the same as a an existing large, dry PWR containment in Appendix H, with only a minor difference.
 - In other words the tables 6.1 and 6.2 currently in Appendix H for screening and assessing type A findings will look the same for an AP1000 and a Large Dry PWR containment

- Minor difference
 - The potential for consequential steam generator tube rupture (C-SGTR) will not be always screened out if the accident sequences that significantly affect the conditional probability of having a C-SGTR exist.

Revision to IMC 0609 Appendix H

For type B findings (findings that only affect LERF and not CDF):

- AP1000 will be treated the same as an existing large, dry PWR containment for screening purposes in Appendix H. With only minor differences.
- Tables 7.1 and 7.2 will be almost the same between an AP1000 and an existing large, dry PWR containment except:
 - AP1000s can be evaluated for findings against hydrogen igniters, but only for a significant loss of function to the igniters.
 - The risk significance potential of type B findings for an AP1000 will be significantly less than for existing large dry PWRs due to the lower baseline CDF of the AP1000 design

Revision to IMC 0609 Appendix H

Summary

- “Big Picture” – AP1000 reactors will be treated the same as an existing large dry containment with only minor differences.

Other items:

- The technical basis document for Appendix H (IMC 0308, Att 3, App H) will be updated at a later date with a goal of December 2020.
- Keep in mind that App H screening and assessment only arrives at an intermediate risk result that can be further refined if needed.