Source	Comment(s)	NRC Staff's Disposition and Basis
Robert Meyer, The Professional Reactor Operator Society	Evaluate adding a K/A Section for response to natural events, earthquakes (e.g., North Anna), tornadoes, external flooding, etc.	Noted. The NRC staff will consider this comment for the next revision to this document.
Andrew Freed	Page 352 (6.1-6) 1. The underlined section of "Plot the curve and explain" should reference Xenon-135 instead of Xenon-124. 2. K1.17 - Missing a "9" after the "Samarium-14"this should state Samarium-149. The NRC GFE is a publicized bank and there is no reference to Xenon-124, only Xenon-135. Additionally, Samarium-149 is	Incorporated. The commenter identified typographical errors, which the NRC staff corrected in the final report.
Charles Sawyor	the isotope that is covered by the nuclear industry.	Incorporated The
Charles Sawyer, Duke Energy	Editorial Changes: Page Fix 1-11 Make word reflex what is really there 2-15 wording 'bER' 3.1-2 K4.08 Importance value needs to be moved to right 3.1-3 K5.08 Importance value needs to be moved to right 3.1-6 A4.03 Importance value needs to be moved to right 3.1-11 A1.16 Importance value needs to be moved to right 3.1-11 A1.17 Importance value needs to be moved to right 3.2-6 A4.03 Importance value needs to be moved to right 3.2-19 K5.02 Importance value needs to be moved to right 3.4-1 Add another space between last word and importance value 3.4-8 K4.10 Importance value needs to be moved to right 3.4-10 K5.28 word 'of' is 'on' in our submittal 3.4-15 K4.16 add another space between last word and 3.9 3.4-32 Remove space between K6.08 and K6.09 3.4-36 K5.01 return needed 3.5-6 Add return and line up importance value	Incorporated. The commenter identified typographical errors, which the NRC staff corrected in the final report.

- 3.5-7 A4.02 Importance value needs to be moved to right
- 3.6-3 A4.01 need a return and align importance value
- 3.7-1 Reactor Trip System missing from K3s importance value 3.4
- 3.7-5 K3.05 should be Reactor System with importance value of 2.9
- 3.7-16 K4.29 should read 'Placing a channel in bypass'
- 3.7-16 K4.30 should read 'Placing a channel in trip'
- 3.7-17 K5.05 should read 'Placing a channel in bypass'
- 3.7-17 K5.06 should read 'Placing a channel in trip'
- 3.8-10 K2.01 importance value should be 2.1
- 3.8-15 KA missing on dropped or damaged fuel assembly 3.7 and 3.9 plus, no values for A2.15
- 3.8-17 K4.01, K4.02 and K4.03 importance values are wrong
- 3.8-20 K4.13 has been deleted from the design
- 3.8-21 K6s at the top of the page are out of order
- 3.8-24 A2.06 A should be a and move importance values to the right
- 3.9-5 K6.06 needs a close)
- 4.1-3 Need to delete EK3 bold text on previous page
- 4.1-4 Need to delete EA1 bold text on previous page
- 4.1-6 Need to delete EK2 bold text on previous page
- 4.1-9 Need to delete EK2 bold text on previous page
- 4.1-10 Need to delete EK3 bold text on previous page
- 4.1-13 Need to delete EK2 bold text on previous page
- 4.1-14 Need to delete EK3 bold text on previous page
- 4.1-19 Remove space between EA2.01 and EA2.02
- 4.1-21 EK3s need to align importance values
- 4.1-23 EK3.01 need to align words and move importance value to the right

- 4.1-25 Need to align importance values to the right
- 4.1-29 have two EK3.01 KAs exactly the same
- 4.1-29 Need to remove space between EA1.03 and EA1.04
- 4.1.30 Need to align and fix words and numbers on first 2 KAs
- 4.1-37 EA1.04 Core not core
- 4.1-44 EK2.02 Importance value needs to be moved to right
- 4.1-49 Two EK3.01 KAs
- 4.1-49 Remove space between EA1.03 and EA1.04
- 4.1-50 Need to align SRO importance numbers
- 4.1-50 EA2.04 SRO importance is 3.3 not 3
- 4.1-55 EK2.01 need a space between the K and 2 plus needs a 1
- 4.1-65 EK2.01 Importance value needs to be moved to right
- 4.1-65 EK2.02 Importance value needs to be moved to right
- 4.1-65 EK3.01 need to correct wording alignment
- 4.2-2 Remove space between AK3.08 and AK3.09
- 4.2-4 Need to add space in KA number
- 4.2-6 AK3.01 need to fix number should be 3.01
- 4.2-8 AA205 should be AA 2.05
- 4.2-14 AA.202 should be AA 2.02
- 4.2-10 Remove space between AA1.03 and AA1.04
- 4.2-22 Missing KA AA 1.01 Hotwell level control 2.9
- 4.2-23 AK3 alignment issues
- 4.2-33 Top of page IMPORTANCE need to be moved to the right
- 4.2-36 KA should be AA 1.01
- 4.2-42 Missing KA AA1.01 Main and Startup Feedwater 2.9
- 4.2-49 Missing KA AK 1.01 Booster/main feedwater pumps 2.4 value
- 4.2-49 Need a space between CFR references and first KA

Need to make sure P4 is defined the same way throughout the catalog

Importance ratings: Page Fix 3.8-1 Starting with K1.02 the values in our submittal are different through K1.36 3.8-2 K2.01, K2.02 and K2.03 values are different in our submittal	Noted. The importance ratings for each K/A were calculated by a group of raters consisting of NRC staff and industry personnel with relevant operating experience. The NRC public meeting summary dated October 8, 2014 (ADAMS Accession No. ML14275A385), says that after the first refueling (when actual operating experience exists), a group will be formed to review the contents of the K/A catalog, including importance ratings
Questions: Page Fix 3.4-10 K5.30, K5.31 and K5.32 Generic Fundamentals - Delete?	importance ratings. Noted. The NRC staff compared K 5.30, K 5.31, and K 5.32 on Page 3.4-10 to Section 6 of the report, which contains the reactor theory K/As that are used to develop content for generic fundamentals exams. The NRC staff did not find any overlap of K/As in Section 6 and those listed on Page 3.4-10. Therefore K 5.30, K 5.31, and K 5.32 on Page 3.4-10 have been included in NUREG-2103, Section 3.

3.8-18	K/A A 2.01 was determined to not be applicable at the time of publication of the report based on available information. The NRC staff will reevaluate K/As following the first refueling operation.
4.1-61	The NRC staff confirmed the K/A was added to the report.

Docket: NRC-2011-0272-0004

Draft comment period: 11/29/2011 - 12/31/2016