

RESOLUTION OF COMMENTS BY THE OFFICE OF NUCLEAR REACTOR REGULATION
ON DRAFT SAFETY EVALUATION FOR TOPICAL REPORT ANP-10335P, REVISION 0,
"ACE/ATRIUM 11 CRITICAL POWER CORRELATION"

FRAMATOME, INC.

PROJECT NO. 728/DOCKET NO. 99902041

This attachment provides the U.S. Nuclear Regulatory Commission (NRC) staff's review and disposition of the comments made by Framatome Inc. (formerly AREVA Inc.) on the draft safety evaluation (SE) for Topical Report ANP-10335P, Revision 0, "ACE/ATRIUM 11 Critical Power Correlation."

Page*	Line(s)*	Proposed Change	NRC Resolution of Comment
1	5	Page 1, line 5. Typo: Change "CPR" to "CPC"	The NRC staff agrees with the proposed change. The error was corrected in the final SE.
2	34	Change "Reference 134" to "Reference 14"	The NRC staff agrees with the proposed change. The error was corrected in the final SE.
3	29	Change "Chapter 7" to "Chapter 6"	The NRC staff agrees with the proposed change. The error was corrected in the final SE.
3	36	Change "Chapter 7" to "Chapter 6"	The NRC staff agrees with the proposed change. The error was corrected in the final SE.
4	13	Change "indirectly" to "directly"	The NRC staff agrees with the proposed change. The error was corrected in the final SE.
4	15	Change "indirectly" to "directly"	The NRC staff agrees with the proposed change. The error was corrected in the final SE.
6	33	Change "[]" to "[]"	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.
6	33	Change "[]" to "[]"	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.

Page*	Line(s)*	Proposed Change	NRC Resolution of Comment
6	35-36	Change " " to "[]"	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.
6	37	Change " " to "[]"	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.
6	40	Change "[a mechanistic correlation]" to "a mechanistic correlation"	The NRC staff agrees that the information is non-proprietary. The information was marked accordingly in the final SE.
7	46-47	Delete "...through test data taken in the ATRIUM-10 test campaign,"	The NRC staff agrees with the proposed change. The text was deleted in the final SE.
8	9	Change " " to "[]"	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.
8	28-29	Change "and position the bundle in the center of the channel" to "[and position the bundle in the center of the channel]"	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.
9	21-25	Change " " to "[]"	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.

Page*	Line(s)*	Proposed Change	NRC Resolution of Comment
9	27	Change "a wide a wide" to "a wide"	The NRC staff agrees with the proposed change. The error was corrected in the final SE.
9	37	Change " [] " to "[]"	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.
10	11-12	Change "[]" to "[]."	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.
10	22	Change "[]" to "[]"	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.
10	25-26	Change "[]" to "[]"	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.
11	12	Change "the though" to "though the"	The NRC staff agrees with the proposed change. The error was corrected in the final SE.
11	12	Change "[]" to "[]"	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.
11	23-24	Change "[]" to "[]"	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.
14	17-18	Change "[]" to "[]"	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.
17	42-43	Change "[]" to "[]"	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.

Page*	Line(s)*	Proposed Change	NRC Resolution of Comment
18	1	Change “ ” to “[...]”	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.
18	2	Change “ [, []” to “[...]”	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.
19	27	Change “or because the enthalpy of the film reaches that of the bulk flow” to “or because the annular film enthalpy reaches that of saturated vapor”	The NRC staff agrees with the proposed change. The error was corrected in the final SE.
19	31	Change “[a mechanistic treatment of boiling transition]” to “a mechanistic treatment of boiling transition”	The NRC staff agrees that the information is non-proprietary. The information was marked accordingly in the final SE.
20	17	Change "the both the" to "both the"	The NRC staff agrees with the proposed change. The error was corrected in the final SE.
20	35	Change “ to “[]”	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.
20	35-39	Delete “However, as will be discussed in Section 3.2.3.2.1, “Calculation of correlation statistics,” Framatome’s response to RAI-SNPB-28 stated that it was necessary to []. It is therefore incorrect to state that some data is reserved exclusively for validation.”	The text was modified in the final SE to clarify the NRC position. The information was not deleted but reworded to correct inaccuracies in the draft SE.
21	12	Change “RAI-SNPB-15” to “RAI-SNPB-16”	The NRC staff agrees with the proposed change. The error was corrected in the final SE.
21	33	Change "how such these values" to "how these values"	The NRC staff agrees with the proposed change. The error was corrected in the final SE.
22	1	Change “In the Reference 2” to “In Reference 2”	The NRC staff agrees with the proposed change. The error was corrected in the final SE.

Page*	Line(s)*	Proposed Change	NRC Resolution of Comment
24	23-28	Delete 'As was discussed in Section 3.2.2.2.1 of this SE, "Identification of training data," it was revealed that though the data was partitioned into correlating and validating datasets for the purposes of fitting the linear and nonlinear coefficients, []'. It is therefore incorrect to state that some data was reserved for validation purposes. This will be discussed in additional detail in Section 3.2.3.3.1, "Calculation of correlation statistics."	The text was modified in the final SE to clarify the NRC position. The information was not deleted but reworded to correct inaccuracies in the draft SE.
24	30	Delete "However, despite the fact that []"	The NRC staff agrees with the proposed change. The text was deleted in the final SE.
25	15-16	Delete the text "that the data was not fully partitioned into correlating and validating datasets, given"	The text was modified in the final SE to clarify the NRC position. The information was not deleted but reworded to correct inaccuracies in the draft SE.
25	22	Change " []" to "[]"	The text was modified in the final SE to clarify the NRC position. The information was not deleted but reworded to correct inaccuracies in the draft SE.
26	19	Change " []" to "[]"	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.
35	28-29	Change "partitioned into correlating and validating datasets for the purposes of []" to "partitioned and the validating dataset can be used exclusively to []".	The NRC staff agrees with the proposed change. The error was corrected in the final SE.
38	28	Change " []" to "[]"	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.
38	30	Change "argued that [even before " to "argued that even before "	The NRC staff agrees that the information is non-proprietary. The information was marked accordingly in the final SE.

Page*	Line(s)*	Proposed Change	NRC Resolution of Comment
38	36	Change "prediction of dryout.]" to "prediction of dryout."	The NRC staff agrees that the information is non-proprietary. The information was marked accordingly in the final SE.
38	39	Change "that [the existing" to "that the existing".	The NRC staff agrees that the information is non-proprietary. The information was marked accordingly in the final SE.
38	43	Change " ...]" to "...]".	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.
39	1	Change "]" to "[]".	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.
40	11-14	Change "defined []" to "defined []".	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.
42	30-31	Change "specify []" to "specify []".	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.
42	39	Change "than , []" to "than [] ..."	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.
42	42	Change "]" to "[]"	The NRC staff agrees that the information is proprietary. The information was marked accordingly in the final SE.