

framatome

999 02041
PROJ0728

November 24, 2021
NRC:21:032

U.S. Nuclear Regulatory Commission
Document Control Desk
11555 Rockville Pike
Rockville, MD 20852

**Response to Request for Additional Information Regarding BAW-10227P, Revision 2,
"Evaluation of Advanced Cladding and Structural Material (M5) in PWR Reactor Fuel"**

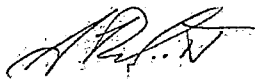
Framatome Inc. (Framatome) requested the NRC's review and approval of the topical report BAW-10227P, Revision 2, "Evaluation of Advanced Cladding and Structural Material (M5) in PWR Reactor Fuel" in Reference 1. The NRC provided a Request for Additional Information (RAI) in Reference 2. The responses to RAI questions 1, 2, 4, 5 and 6 were previously provided in Reference 3, and the responses to RAIs 7, 8, 9, and 10 were provided in Reference 4. The response to RAI 3 was provided in Reference 5. This letter submits the response to a follow-up RAI question regarding questions 8, 9 and 10 in Reference 6.

Framatome considers some of the material contained in the enclosure to be proprietary. As required by 10 CFR 2.390(b), an affidavit is enclosed to support the withholding of the information from public disclosure. Proprietary and non-proprietary versions of the RAI response are provided.

There are no commitments within this letter or its enclosures.

If you have any questions related to this information please contact Mr. Morris Byram, Licensing Manager, Licensing & Regulatory Affairs, by telephone at (434) 221-1082, or by e-mail at Morris.Byram@framatome.com.

Sincerely,



Gary Peters, Director
Licensing & Regulatory Affairs
Framatome Inc.

cc: N. Otto
Project 728

T007
YGD1
NRR

Framatome Inc.
3315 Old Forest Road
Lynchburg, VA 24501
Tel: (434) 832-3000

www.framatome.com

References:

- Ref. 1: Letter, Gary Peters (Framatome Inc.) to Document Control Desk (NRC), "Request for Review and Approval of BAW-10227P, Revision 2, 'Evaluation of Advanced Cladding and Structural Material (M5) in PWR Reactor Fuel'," NRC:19:034, December 31, 2019.
- Ref. 2: Letter, Ngola Otto (NRC) to Gary Peters (Framatome Inc.), "Request for Additional Information Regarding Framatome Inc. Topical Report, BAW-10227, Revision 2, 'Evaluation of Advanced Cladding and Structural Material (M5) in PWR Reactor Fuel' (EPID L-2019-TOP-0054)," August 21, 2020.
- Ref. 3: Letter, Gary Peters (Framatome Inc.) to Document Control Desk (NRC), "Response to Request for Additional Information Regarding BAW-10227P, Revision 2, 'Evaluation of Advanced Cladding and Structural Material (M5) in PWR Reactor Fuel'," NRC:20:024, October 23, 2020.
- Ref. 4: Letter, Gary Peters (Framatome Inc.) to Document Control Desk (NRC), "Response to Request for Additional Information Regarding BAW-10227P, Revision 2, 'Evaluation of Advanced Cladding and Structural Material (M5) in PWR Reactor Fuel'," NRC:20:032, December 18, 2020.
- Ref. 5: Letter, Gary Peters (Framatome Inc.) to Document Control Desk (NRC), "Response to Request for Additional Information Regarding BAW-10227P, Revision 2, 'Evaluation of Advanced Cladding and Structural Material (M5) in PWR Reactor Fuel'," NRC:21:015, July 19, 2021.
- Ref. 6: Letter, Ngola Otto (NRC) to Gary Peters (Framatome Inc.), "Request for Additional Information Regarding Framatome Inc. Topical Report, BAW-10227, Revision 2, 'Evaluation of Advanced Cladding and Structural Material (M5) in PWR Reactor Fuel' (EPID L-2019-TOP-0054)," October 6, 2021.

Attachments:

1. Proprietary copy of BAW-10227, Revision 2, Q4P, Revision 0
2. Non-proprietary copy of BAW-10227, Revision 2, Q4P, Revision 0
3. Affidavit

Enclosure 1:

Proprietary version of BAW-10227 Revision 2, Q4P Revision 0, "Evaluation of Advanced Cladding and Structural Material (M5) in PWR Reactor Fuel Response to Follow-Up RAI to RAIs 8, 9 and 10."

Enclosure 2:

Non-Proprietary version of BAW-10227 Revision 2, Q4P Revision 0, "Evaluation of Advanced Cladding and Structural Material (M5) in PWR Reactor Fuel Response to Follow-Up RAI to RAIs 8, 9 and 10."

AFFIDAVIT

1. My name is Morris Byram. I am Product Manager, Licensing & Regulatory Affairs for Framatome Inc. (Framatome) and as such I am authorized to execute this Affidavit.

2. I am familiar with the criteria applied by Framatome to determine whether certain Framatome information is proprietary. I am familiar with the policies established by Framatome to ensure the proper application of these criteria.

3. I am familiar with the Framatome information contained in the topical report BAW-10227, Rev. 2, Q4P, Rev. 0, entitled "Response to Request for Additional Information Regarding BAW-10227P, Revision 2, 'Evaluation of Advanced Cladding and Structural Material (M5) in PWR Reactor Fuel'" and referred to herein as "Document." Information contained in this Document has been classified by Framatome as proprietary in accordance with the policies established by Framatome for the control and protection of proprietary and confidential information.

4. This Document contains information of a proprietary and confidential nature and is of the type customarily held in confidence by Framatome and not made available to the public. Based on my experience, I am aware that other companies regard information of the kind contained in this Document as proprietary and confidential.

5. This Document has been made available to the U.S. Nuclear Regulatory Commission in confidence with the request that the information contained in this Document be withheld from public disclosure. The request for withholding of proprietary information is made in accordance with 10 CFR 2.390. The information for which withholding from disclosure is

requested qualifies under 10 CFR 2.390(a)(4) "Trade secrets and commercial or financial information."

6. The following criteria are customarily applied by Framatome to determine whether information should be classified as proprietary:

- (a) The information reveals details of Framatome's research and development plans and programs or their results.
- (b) Use of the information by a competitor would permit the competitor to significantly reduce its expenditures, in time or resources, to design, produce, or market a similar product or service.
- (c) The information includes test data or analytical techniques concerning a process, methodology, or component, the application of which results in a competitive advantage for Framatome.
- (d) The information reveals certain distinguishing aspects of a process, methodology, or component, the exclusive use of which provides a competitive advantage for Framatome in product optimization or marketability.
- (e) The information is vital to a competitive advantage held by Framatome, would be helpful to competitors to Framatome, and would likely cause substantial harm to the competitive position of Framatome.

The information in this Document is considered proprietary for the reasons set forth in paragraph 6(c) and 6(d) above.

7. In accordance with Framatome's policies governing the protection and control of information, proprietary information contained in this Document has been made available, on a limited basis, to others outside Framatome only as required and under suitable agreement providing for nondisclosure and limited use of the information.

8. Framatome policy requires that proprietary information be kept in a secured file or area and distributed on a need-to-know basis.

9. The foregoing statements are true and correct to the best of my knowledge, information, and belief.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on: (11/24/2021)

BYRAM Morris Digitally signed by BYRAM Morris
Date: 2021.11.24 15:57:29 -08'00'

(NAME)