EPRI

(via e-mail)

June 14, 2023

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

Docket No. 99902021

Dear Lois James:

Subject: EPRI MOV Performance Prediction Methodology (PPM) Version 4.1, 3002023774

Enclosed is a copy of the EPRI MOV Performance Prediction Methodology (PPM) Version 4.1, 3002023774. The purpose of this letter is to request NRC review to facilitate an NRC Staff Evaluation leading to a determination that the PPM version 4.1 software is acceptable for referencing in licensing applications and that an updated Safety Evaluation is not required.

The EPRI Motor Operated Valve (MOV) Performance Prediction Methodology (PPM) software was developed to enhance industry's ability to size MOVs and predict their performance. Versions 1.0-4.0 have all been approved by the NRC. Table 1 provides a summary of all EPRI MOV Performance Prediction Program submittals and NRC approvals to date.

The latest version of the PPM software, Version 4.1, includes additional functionality with the inclusion of the Thrust Uncertainty Method (TUM) and expansion of the EPRI Refined Unwedging Methodology, resolution of all outstanding Problem Reports and Information/Error Notices, and several convenience-related enhancements. Details of these changes are documented in "EPRI Motor-Operated Valve Performance Prediction Program: Addendum 11 to TR-103237-R2—Changes to Performance Prediction Methodology Software, Version 4.1", EPRI Report 3002026131. This report was provided to Thomas Scarbrough via the Reading Room on May 5, 2023. On May 9, 2023, it was suggested to submit PPM Version 4.1 to the NRC Document Control Desk for NRC review.

Please note the PPM software contains proprietary information. A letter requesting that the report be withheld from public disclosure and an affidavit describing the basis for withholding this information are provided as Attachment 1.

D035
NRR

CHARLOTTE OFFICE
1300 West W.T. Harris Boulevard, Charlotte, NC 28262-8550 USA • 704.595.2000 • Customer Service 800.313.3774 • www.epri.com

If there are any questions on these matters, please contact me at ncamilli@epri.com or 704-595-2594.

Sincerely,

Nick Camilli
EPRI, NMAC Principal Project Manager

Table 1
Summary of EPRI MOV Performance Prediction Program Submittals and NRC Approvals

EPRI/NEI Submittal	EPRI Report #	EPRI Product(s) Description	NRC SE/SE Supplement/Evaluation
EPRI MOV Performance Prediction Program Topical Report Revision 1, dated November 1995	TR-103237-R1	PPM version 1.0 software and Westinghouse Anchor/Darling Double disk gate valve hand calculation methods	NRC SE on TR-103238-R1 March 15, 1996
NRC approved EPRI MOV Performance Prediction Program Topical Report Revision 2, dated April 1997	TR-103237-R2	PPM version 1.0 software and Westinghouse, Anchor/Darling Double disk gate valve, Aloyco and WKM valve hand calculation methods	NRC SE on TR-103237-R1, Supplement 1, February 20, 1997
NRC approved Addendum 1 to TR103237-R2, dated December 1998	AD-110778	PPM version 2.0 software changes	NRC SE on TR-103237-R1, Supplement 2, April 20, 2001

NRC approved Addendum 2 to TR103237-R2, dated October 2002	1003279	Thrust Uncertainty Method (Hand calculation)	NRC SE on TR-103237-R1, Supplement 3, September 30, 2001
NRC approved Addendum 3 to TR103237-R2-A, dated March 2010	1020350	Improved Gate Valve Unwedging Method (hand calculation)	NRC SE on TR-103237-R1, Supplement 4, February 23, 2009
NRC approved Addendum 4 to TR103237-R2-A, dated March 2010	1020357	Use of Static Closure Data for Unwedging Calculations (Hand calculations)	
NRC approved Addendum 5 to TR103237-R2-A, dated March 2010	1020358	PPM version 3.1 software changes	
NRC approved Addendum 6 to TR103237-R2-A, dated March 2010	1020359	PPM version 3.2 software changes	
NRC approved Addendum 7 to TR103237-R2-A, dated March 2010	1020360	PPM version 3.3 software changes	
NRC approved Addendum 8 to TR103237-R2-A, dated March 2016	3002007058	PPM version 3.4 software changes	NRC Staff Evaluation of PPM v3.4 and 3.5, April 2, 2015
NRC approved Addendum 9 to TR103237-R2-A, dated March 2016	3002007059	PPM version 3.5 software changes	
NRC approved Addendum 10 to TR103237-R2, dated April 2019	3002013039	PPM version 4.0 software changes	NRC Staff Evaluation of PPM v4.0, January 25, 2019
Addendum 11 to TR103237-R2, dated March 2023	3002026131	PPM version 4.1 software changes	

EPRI

STEVE SWILLEY
Vice President and Deputy
Chief Nuclear Officer

Ref. Docket Number 99902021

June 13, 2023

Lois James
Document Control Desk
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Subject: Request for Withholding of the following Proprietary information included in:

EPRI MOV Performance Prediction Methodology (PPM) Version 4.1,
3002023774

To Lois James:

This is a request under 10 C.F.R. §2.390(a)(4) that the U.S. Nuclear Regulatory Commission ("NRC") withhold from public disclosure the information identified in the enclosed Affidavit consisting of the proprietary information owned by Electric Power Research Institute, Inc. ("EPRI") identified above (the "Report"). A Proprietary version of PPM Version 4.1 is enclosed.

EPRI desires to disclose PPM V4.1 in confidence. The PPM software is the only NRC approved industry software backed by years of test data that can predict gate, globe, and butterfly performance conservatively. Since initial inception, the NRC has been part of the PPM development and the industry relies on approved Safety Evaluations for each PPM version release. The software is not to be divulged to anyone outside of the NRC or to any of its contractors, nor shall any copies be made of the software provided herein. EPRI welcomes any discussions and/or questions relating to the information enclosed. In case the NRC rejects this affidavit for protection for any reason, EPRI requests that the NRC contact the EPRI project manager and EPRI Order Center (vvaughn@epri.com) with an offer of an opportunity for EPRI to withdraw this submittal.

If you have any questions about the legal aspects of this request for withholding, please do not hesitate to contact me at (704) 595-2630. Questions on the content of the Report should be directed to Nick Camilli of EPRI at (704) 595-2594.

Sincerely,

Attachment(s)

c: Sheldon Stuchell, NRC (sheldon.stuchell@nrc.gov)

1300 West W.T. Harris Boulevard, Charlotte, NC 28262-8550 USA • 704.595.2630 • Mobile 704.562.8135 • sswilley@epri.com

AFFIDAVIT

RE: Request for Withholding of the following Proprietary information included in:
EPRI MOV Performance Prediction Methodology (PPM) Version 4.1, 3002023774

I, Steve Swilley, being duly sworn, depose and state as follows:

I am the Vice President and Deputy Chief Nuclear Officer at Electric Power Research Institute, Inc. whose principal office is located at 3420 Hillview Avenue, Palo Alto, California ("EPRI") and I have been specifically delegated responsibility for the above-listed software that is sought under this Affidavit to be withheld (the "software"). I am authorized to apply to the U.S. Nuclear Regulatory Commission ("NRC") for the withholding of the Report on behalf of EPRI.

EPRI requests that the software be withheld from the public on the following bases:

Withholding Based Upon Privileged And Confidential Trade Secrets Or Commercial Or Financial Information (see e.g. 10 C.F.R. §2.390(a)(4)):

a. The software is owned by EPRI and has been held in confidence by EPRI. All entities accepting copies of the software do so subject to written agreements imposing an obligation upon the recipient to maintain the confidentiality of the software. The software is disclosed only to parties who agree, in writing, to preserve the confidentiality thereof.

b. EPRI considers the software and the proprietary information contained therein (the "Proprietary Information") to constitute trade secrets of EPRI. As such, EPRI holds the software in confidence and disclosure thereof is strictly limited to individuals and entities who have agreed, in writing, to maintain the confidentiality of the software. EPRI made a substantial economic investment to develop the software, and, by prohibiting public disclosure, EPRI derives an economic benefit in the form of licensing royalties and other additional fees from the confidential nature of the software. If the software and the Proprietary Information were publicly available to consultants and/or other businesses providing services in the electric and/or nuclear power industry, they would be able to use the software and methodologies within for their own commercial benefit and profit and without expending the substantial economic resources required of EPRI to develop the software.

c. EPRI's classification of the software and the Proprietary Information as trade secrets is justified by the Uniform Trade Secrets Act which California adopted in 1984 and a version of which has been adopted by over forty states. The California Uniform Trade Secrets Act, California Civil Code §§3426 – 3426.11, defines a "trade secret" as follows:

> "'Trade secret' means information, including a formula, pattern, compilation, program device, method, technique, or process, that:
>
> (1) Derives independent economic value, actual or potential, from not being generally known to the public or to other persons who can obtain economic value from its disclosure or use; and

(2) Is the subject of efforts that are reasonable under the circumstances to maintain its secrecy."

d. The software and the Proprietary Information contained therein are not generally known or available to the public. EPRI developed the software only after making a determination that the Proprietary Information was not available from public sources. EPRI made a substantial investment of both money and employee hours in the development of the software. EPRI was required to devote these resources and effort to derive the Proprietary Information and the software. As a result of such effort and cost, both in terms of dollars spent and dedicated employee time, the software is highly valuable to EPRI.

e. A public disclosure of the Proprietary Information would be highly likely to cause substantial harm to EPRI's competitive position and the ability of EPRI to license the Proprietary Information both domestically and internationally. The Proprietary Information and software can only be acquired and/or duplicated by others using an equivalent investment of time and effort.

I have read the foregoing and the matters stated herein are true and correct to the best of my knowledge, information and belief. I make this affidavit under penalty of perjury under the laws of the United States of America and under the laws of the State of North Carolina.

Executed at 1300 W WT Harris Blvd, Charlotte, NC being the premises and place of business of Electric Power Research Institute, Inc.

Date: 6/13/23

Steve Swilley

(State of North Carolina)
(County of Mecklenburg)

Subscribed and sworn to (or affirmed) before me on this 13 day of June, 2023 by Steve Swilley, proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Signature _____ (Seal)

SANDRA B. SHERIFF Notary Public Cabarrus County NORTH CAROLINA

My Commission Expires 12 day of August, 2024

EPRI

Packing Slip

Date: 06/19/2023

Order Number: 45029073	**Ship Via:** Shipped fron	**Page:** 1 of 1
Delivery Number: 80029523	**Order Date:** 06/19/2023	
Customer PO:		

Inquiries Only:
EPRI Software Center
1300 West W.T. Harris
Boulevard
Charlotte NC 28262
(800) 313-3774

Ship To:
Lois James
U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville MD 20852 USA
Contact Phone: 301-405-3306
EPRI Contact: 5372022

Item Numbers	Product Number Description	Actual Ship Date	UOM	Qty
000001	3002023774 MOV PPM V4.1	06/19/2023	EA	1.000