



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

May 11, 2023

MEMORANDUM TO: Michael J. Wentzel, Chief  
Advanced Reactor Licensing Branch 2  
Division of Advanced Reactors and Non-Power  
Production and Utilization Facilities  
Office of Nuclear Reactor Regulation

FROM: Adrian Muñiz, Senior Project Manager  
Advanced Reactor Licensing Branch 2  
Division of Advanced Reactors and Non-Power  
Production and Utilization Facilities  
Office of Nuclear Reactor Regulation

*Adrian Muñiz* Signed by Muniz Gonzalez, Adrian  
on 05/11/23

SUBJECT: SUMMARY OF FEBRUARY 17, 2023, MEETING TO DISCUSS  
RADIANT INDUSTRIES' QUESTIONS ON MANUFACTURING  
LICENSES AND REGULATORY GUIDE 1.232

On February 17, 2023 (Agencywide Documents Access and Management System Accession No. (ADAMS) ML23046A038), the U.S. Nuclear Regulatory Commission (NRC) staff held a public meeting to discuss Radiant Industries' questions pertaining to manufacturing licenses and Regulatory Guide (RG) 1.232, "Guidance for Developing Principal Design Criteria for Non-Light Water Reactors." Staff from Radiant Industries (Radiant) used the slides in ADAMS Accession No. ML23048A271 to guide the discussion.

The NRC staff addressed Radiant Industries' questions pertaining to activities that are permissible prior and after obtaining a manufacturing license. In addition, the NRC staff clarified that Criterion 17 of RG 1.232 discusses two power sources, an onsite and an additional power system for meeting the redundancy requirement. Radiant Industries staff also asked if a high temperature gas reactor design that utilizes peripheral control drums for reactivity control and shutdown can satisfy RG 1.232 criterion 26 by utilizing 3 independent groups of drums. The NRC staff indicated that Radiant Industries should consider submitting a white paper providing additional details pertaining to their design to obtain feedback from the NRC staff on this matter. The meeting attendee list is enclosed.

Project No.: 99902106

Enclosures:  
As stated

CONTACT: Adrian Muñiz, NRR/DANU  
301-415-4093

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INDUSTRIES' QUESTIONS ON MANUFACTURING LICENSES AND REGULATORY  
GUIDE 1.232 DATED: MAY 11, 2023

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**ADAMS Accession No: ML23128A103****NRC-001**

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<b>NAME</b>	AMuñiz	MWentzel	AMuñiz
<b>DATE</b>	5/10/2023	5/10/2023	5/11/2023

**OFFICIAL RECORD COPY**

### List of Attendees

NAME	ORGANIZATION
Doug Bernauer	Radiant Industries
Elliott Korb	Radiant Industries
Ben Betzler	Radiant Industries
Chris Fanning	Radiant Industries
James Tomkins	Radiant Industries
Adrian Muñiz	U.S. Nuclear Regulatory Commission (NRC)
Amy Cubbage	NRC
Jeffrey Schmidt	NRC
Michael Wentzel	NRC
William Kennedy	NRC
Julie Ezell	NRC
Mike Montecalvo	TerraPower
Christopher Chwasz	Idaho National Laboratory
Leigh Lloveras	The Breakthrough Institute
Rani Franovich	The Breakthrough Institute
Adam Stein	The Breakthrough Institute
Rob Burg	
Bryce Salmi	
James Kinsey	
R. Sweeney	
Jana Bergman	Curtiss Wright
Brian Mettenbrink	