



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

September 21, 2018

MEMORANDUM TO: Dennis C. Morey, Chief  
Licensing Processes Branch  
Division of Licensing Projects  
Office of Nuclear Reactor Regulation

FROM: Jonathan G. Rowley, Project Manager */RA/*  
Licensing Processes Branch  
Division of Licensing Projects  
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF AUGUST 15, 2018, CLOSED MEETING WITH FRAMATOME  
INC. AND LIGHTBRIDGE CORPORATION TO INTRODUCE ENFISSION LLC

On August 15, 2018, a closed meeting was held between the U.S. Nuclear Regulatory Commission (NRC) staff, Framatome Inc. (Framatome), and Lightbridge Corporation (Lightbridge) to introduce Enfission LLC (Enfission) to the NRC. In addition to the organization introduction, key elements of the Lightbridge Fuel design and project plans were discussed.

Enfission is a 50-50 joint venture of Lightbridge and Framatome. The Lightbridge fuel design is an accident tolerant fuel concept that utilizes an extruded, solid metallic, helically-twisted, four lobed fuel rod with uranium enrichment up to 19.7 percent. Enfission believes that there are many benefits (e.g., thermal hydraulic, mechanical, and operational) to the design over the currently used ceramic uranium oxide fuel pellets encapsulated in cylindrical zirconium cladding. Enfission plans to insert a lead test rod, a lead test assembly, and a batch reload in a commercial reactor at varying intervals in the future.

A list of attendees is enclosed. The Enfission presentation material can be found in the Agencywide Documents Access and Management System at Accession Nos. ML18232A127 (proprietary) and ML18232A126 (non-proprietary).

Docket No. 99902041

Enclosure: List of Attendees

CONTACT: Jonathan G. Rowley, DLP/PLPB  
(301) 415-4053

SUBJECT: SUMMARY OF AUGUST 15, 2018, CLOSED MEETING WITH FRAMATOME  
INC. AND LIGHTBRIDGE CORPORATION TO INTRODUCE ENFISSION LLC  
DATE: SEPTEMBER 21, 2018

**DISTRIBUTION:**

PUBLIC	RidsNrrDss	RidsResOd
PLPB R/F	RidsNrrDssSnpb	RidsACRS_MailCTR
JRowley, NRR	RidsOgcMailCenter	
DMorey, NRR	RidsNrrDlp	
RidsNroOd	RidsNrrDlpPlpb	

**EXTERNAL DISTRIBUTION:**

<a href="mailto:jfornof@ltbridge.com">jfornof@ltbridge.com</a>	<a href="mailto:jjohnson@ltbridge.com">jjohnson@ltbridge.com</a>
<a href="mailto:jbaggett@enfission.net">jbaggett@enfission.net</a>	<a href="mailto:jmalone@enfission.net">jmalone@enfission.net</a>
<a href="mailto:atotemeier@enfission.net">atotemeier@enfission.net</a>	<a href="mailto:nathan.hottle@framatome.com">nathan.hottle@framatome.com</a>
<a href="mailto:jeff.tucker@framatome.com">jeff.tucker@framatome.com</a>	

**ADAMS Accession No.: Summary - ML18257A051; Presentation - ML18232A127  
(proprietary)/ML18232A126 (Non-proprietary) NRR-106**

OFFICE	NRR/DLP/PLPB/PM	NRR/DLP/PLPB/BC	NRR/DLP/PLPB/PM
NAME	JRowley	DMorey (HCruz <i>for</i> )	JRowley
DATE	9/14/2018	9/21/2018	9/21/2018

**OFFICIAL RECORD COPY**

List of Attendees

**Enfission Introduction Meeting**

August 15, 2018

<b>Name</b>	<b>Organization</b>
James Malone	Enfission LLC (Enfission)
Aaron Totemeier	Enfission
Nathan Hottle	Enfission
Jeff Tucker	Enfission
Jonathan Baggett	Enfission
James Fornof	Lightbridge Corporation
Jon Johnson	Lightbridge Corporation
Jonathan Rowley	U.S. Nuclear Regulatory Commission (NRC)
Jacob Zimmerman	NRC
James Hammelman	NRC
Mirela Gavrilas	NRC
Andrew Proffitt	NRC
Ian Porter	NRC
Ricardo Torres	NRC
Kevin Ramsey	NRC
Johsua Whitman	NRC
Jane Marshall	NRC
Scott Krepel	NRC
MJ Ross-Lee	NRC
Robert Beaton	NRC
Paul Clifford	NRC
Robert Lukes	NRC
Jason Paige	NRC

Enclosure