

April 29, 2013

MEMORANDUM TO: Anna H. Bradford, Branch Chief
Small Modular Reactor Licensing Branch 2
Division of Advanced Reactors & Rulemaking
Office of New Reactors

FROM: Arlon O. Costa, Sr. Project Manager /RA/
Small Modular Reactor Licensing Branch 2
Division of Advanced Reactors & Rulemaking
Office of New Reactors

SUBJECT: SUMMARY OF A PUBLIC AND CLOSED MEETING WITH THE
U.S. NUCLEAR REGULATORY COMMISSION STAFF AND
WITH WESTINGHOUSE ELECTRIC COMPANY, LLC, AND
AMEREN MISSOURI REGARDING A TECHNICAL OVERVIEW
OF THE WESTINGHOUSE SMALL MODULAR REACTOR
DESIGN (PROJ0797)

On April 11, 2013, the U.S. Nuclear Regulatory Commission (NRC) staff held public and closed meetings with representatives from Westinghouse Electric Company (WEC) and Ameren Missouri (see enclosed agenda and attendance list). The public session was held in the morning and WEC provided a brief design overview of the Westinghouse small modular reactor (W-SMR) design and Ameren discussed areas related to the Callaway site, where four to five W-SMR modules may be planned. WEC and Ameren interacted with the NRC staff during their presentations. It was disclosed by Ameren that they intend to file a combined license for the W-SMR in August of 2015. During the public question and answer period, the public and representatives from the Missouri Coalition for the Environment, Southern Alliance for Clean Energy, and Friends of the Earth posed questions to the NRC staff related to the W-SMR design and Callaway's intended site for the W-SMR. The topic questions included the use of NRC's Standard Review Plan (NUREG-0800), the need for power, plant emissions and cooling, seismic and underground structures, multi-modules and emergency preparedness. The WEC and Ameren presentation, which was discussed during the public portion of the meeting, is available to the public through the Agencywide Documents Access and Management System (ADAMS) accession number ML13095A190. During the closed portion of the meeting held in the afternoon, Westinghouse provided a detailed proprietary presentation of the W-SMR design to the staff and responded to staff questions.

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301-415-6402

The discussion covered topics described in the agenda, such as the integral reactor design, balance of plant, aboveground and underground plant layout, plant safety, modularity, licensing and testing. Westinghouse re-affirmed that they intend to submit the design certification application for W-SMR in the second quarter of 2014. This date was previously issued in a response to RIS-2012-12 as proprietary but Westinghouse later authorized its public disclosure via email correspondence with the NRC. The WEC non-proprietary presentation slides are available to the public through ADAMS accession number ML13095A198.

ADAMS is the system that provides text and image files of NRC's public documents. Documents are available electronically at the NRC's Electronic Reading Room at <http://www.nrc.gov/reading-rm/adams.html>. If you do not have access to ADAMS or have problems accessing the documents located in ADAMS, contact the NRC Public Document Room (PDR) staff at 1-800-397-4209, 301-415-4737, or pdr@nrc.gov.

Docket No.: PROJ0797

Enclosure:

1. Agenda
2. Attendees List

cc w/enclosure: DC WSMR Mailing List

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NAME	ACosta	ABradford
DATE	4/29/2013	4/29/2013

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AGENDA

Westinghouse Electric Company (WEC), LLC and Ameren Missouri, Public and Closed Meeting with the U.S. Nuclear Regulatory Commission (NRC)

Executive Boulevard Building Rooms: HQ-EBB-01B13/15
6003 Executive Boulevard
Rockville, Maryland 20852

Thursday, April 11, 2013
8:30 a.m. – 4:30 p.m.

TIME	TOPIC	FACILITATOR
08:30 a.m. – 08:45 a.m.	Introductions and Opening Remarks	NRC/WEC
08:45 a.m. – 09:15 a.m.	W-SMR Design Overview <ul style="list-style-type: none">Westinghouse and Global IndustryNext Phase – SMRsCompetitiveness and SMR Value	WEC
09:15 a.m. – 09:30 a.m.	Ameren Missouri <ul style="list-style-type: none">PartnershipEconomy Development, Callaway Site and Industry TeamCustomer Benefits	Ameren
09:30 a.m. – 11:00 a.m.	W-SMR Technology Overview <ul style="list-style-type: none">Plant Design and SystemsNuclear Island LayoutSafety SystemsModular Construction	WEC
11:00 a.m. – 11:30 a.m.	Question and Answer	All
Public Session Concluded		
11:30 a.m. – 01:00 p.m.	Break	
Closed Session Between Westinghouse/Ameren and NRC Staff		
01:00 p.m. – 02:30 p.m.	W-SMR Design Technical Overview <ul style="list-style-type: none">Reactor, Pressurizer, CRDMs, Steam Generator, RCPs and Containment VesselSafety SystemsFuel and Refueling	WEC
02:30 p.m. – 02:45 p.m.	Break	
02:45 p.m. – 04:30 p.m.	W-SMR Design Technical Overview (Continued) <ul style="list-style-type: none">Levels of SafetyBOP and Turbine GeneratorPlant LayoutModularity and ConstructionLicensing and Testing	WEC
04:30 p.m.	Adjourn	

ATTENDANCE LIST

WESTINGHOUSE ELECTRIC COMPANY (WEC), LLC AND AMEREN MISSOURI, PUBLIC AND CLOSED MEETING WITH THE U.S. NUCLEAR REGULATORY COMMISSION (NRC)

Thursday, April 11, 2013
Room: HQ-EBB-01B13/15

W-SMR Overview and Design Technical Overview

NAME	AFFILIATION	NAME	AFFILIATION
A Bradford	NRO/DARR	N Ray	NRO/DE/CIB
A Costa	NRO/DARR/SMRLB2	Z Xi	NRO/DSEA/RGS1
A Istar	NRR/DLR/RASB	S Ahmed	NRO/DE/EMB
C Li	NRO/DSRA/BPTS	S Downey	NRO/DE/CIB
C Weber	NRO/DCIP/CIPB	I Frankl	RES/DSA
G Thomas	NRO/DSRA	T Jackson	NRO/DE/ICE1
H Wagage	NRO/DSRA/SCVB	T Kevern	NRO/DARR/SMRLB2
I Madni	NRO/DSRA/SCVB	W Held	NRO/DARR
J McKirgan	NRO/DSRA	W Krotiuk	RES/DSA/RSAB
J Zhao	NRO/DE/ICE1	W Wang	NRO/DSEA
K Jabbour	NRO/DARR	Y Hsii	NRO/DSRA
M Carusso	NRO/DSRA/SPRA	Y Law	NRO/DE/EMB
M Hart	NRO/DSEA/DPAC/RDAT	Z Gran	NRO/DSEA
M Notich	NRO/DARR/SMRLB1	A Harkness	Westinghouse
P Yarsky	RES/DSA/RSAB	A Heflin	Ameren Missouri
L Mrowca	NRO/DSRA/SPRA	C Reid	Bechtel
M Gonzalez	RES/DRA/PRAB	E Cummins	Westinghouse
A Stubbs	NRO/DSRA/BPFP	J Goossen	Westinghouse
D Halverson	RES/DE/ICEEB	R Fetterman	Westinghouse
D Palmrose	NRO/DSEA/RENV	R Sisk	Westinghouse
D Reddy	NRO/DSRA/BPFP	R Wright	Westinghouse
E Stutzcage	NRO/DSEA/DPAC	S Bond	Ameren Missouri
L Wheeler	NRO/DSRA/BPTS	S Mirsky	NuScale Power
R Davis	NRO/DE/CIB	T Beville	US DOE
P Lien	RES/DSA/RSAB	T Geer	Westinghouse
G Curran	NRO/DSRA/BPTS	T Meneely	Westinghouse
J Schaperow	NRO/DSRA/SPRA	T Miller	DOE/NE
K Gambone	NSIR/DPR/DDEP/NRLB		
R Nolan	NRO/DSRA/BPFP		

DC WSMR - Mailing List

(Revised 04/22/2013)

cc:

John E. Goossen

Vice President

Innovation Hub and SMR Development

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