



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

December 31, 2019

MEMORANDUM TO: Eric J. Benner, Division Director  
Division of Engineering  
and External Hazards  
Office of Nuclear Reactor Regulation

THRU: Louise Lund, Division Director */RA/*  
Division of Engineering  
Office of Nuclear Regulatory Research

FROM: Integrated Action Plan Modernization Plan #4B Working Group

SUBJECT: FINAL REPORT FOR THE STRATEGIC ASSESSMENT OF THE  
DIGITAL INSTRUMENTATION AND CONTROL REGULATORY  
INFRASTRUCTURE

In the U.S. Nuclear Regulatory Commission (NRC) Staff Requirements Memorandum (SRM) to SECY-15-0106, "Proposed Rule: Incorporation by Reference of Institute of Electrical and Electronics Standard, 603-2009, IEEE Standard Criteria for Safety Systems for Nuclear Power Generating Stations," (Agencywide Documents Access and Management System (ADAMS) Accession No. ML16056A614), the Commission directed the NRC staff to develop an integrated strategy to modernize the NRC's digital instrumentation and control (I&C) regulatory infrastructure. In response to this SRM, the NRC staff developed and subsequently revised the "Integrated Action Plan to Modernize Digital Instrumentation and Controls Regulatory Infrastructure," (ADAMS Accession No. ML19025A312). Within this integrated action plan, Modernization Plan #4B, "Broad Assessment for Modernization of Digital Instrumentation and Regulatory Infrastructure," describes how the NRC staff will perform an assessment of the NRC's current overall digital I&C regulatory infrastructure, and based on the assessment results, develop recommendations to modernize the digital I&C regulatory infrastructure. The NRC staff solicited and received input (ADAMS Accession No. ML19351D976 (non-public) and ML19025A307) from internal and external stakeholders to support the staff's assessment.

Enclosed is the report that documents the results of this strategic assessment, which includes one broad recommendation and three specific recommendations to improve the digital I&C regulatory infrastructure. This memo and the enclosed report conclude the Modernization Plan #4B assessment activities.

Enclosure: Final Report for the Strategic Assessment of the Digital Instrumentation and Control Regulatory Infrastructure

Enclosure:  
As Stated

CONTACT: Marieliz Vera, NRR/DNRL  
301-415-5861

SUBJECT: FINAL REPORT FOR THE STRATEGIC ASSESSMENT OF THE DIGITAL  
INSTRUMENTATION AND CONTROL REGULATORY INFRASTRUCTURE  
DATE: DECEMBER 31, 2019

**DISTRIBUTION:**

PUBLIC

NRLB R/F

JJohnston, NRR

MWaters, NRR

RJenkins, RES

DZhang, NRR

MVera, NRR

KMott, RES

PRebstock, RES

BDittman, RES

NCarte, NRR

DTaneja, NRR

ERodriguez, RES

WRoggenbrodt, NRR

DKalathiveetil, NRR

RidsResOd

RidsResDe

RidsNrrDex

RidsNrrDexEicb

RidsNrrDexEica

RidsNrrDnrl

RidsNrrDnrlNrlb

RidsACRS\_MailCTR

RidsOgcMailCenter

**ADAMS Accession No.:****Pkg: ML19351D933****Memo: ML19351D975****Enclosure: ML19365A102 \*via email****NRR-106**

<b>OFFICE</b>	NRR/DEX/EICA/BC	NRR/DNRL/NLRP/LA	NRR/DEX/EICB/BC
<b>NAME</b>	JJohnston*	SLent*	MWaters*
<b>DATE</b>	12/18/2019	12/31/2019	12/13/2019
<b>OFFICE</b>	RES/DE/ICEEB/BC	NRR/DEX/EICA	
<b>NAME</b>	RJenkins*	DZhang*	
<b>DATE</b>	12/11/2019	12/18/2019	

**OFFICIAL RECORD COPY**