



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, ILLINOIS 60532-4352

May 28, 2019

Mr. Mark Bezilla  
Site Vice President  
FirstEnergy Nuclear Operating Co.  
Davis-Besse Nuclear Power Station  
5501 N. State Rte. 2, Mail Stop A-DB-3080  
Oak Harbor, OH 43449-9760

SUBJECT: DAVIS-BESSE NUCLEAR POWER STATION, UNIT 1—NRC TRIENNIAL  
FIRE PROTECTION INSPECTION; INSPECTION REPORT 05000346/2019011

Dear Mr. Bezilla:

On May 3, 2019, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your Davis-Besse Nuclear Power Station, Unit 1. On May 2, 2019, the NRC inspectors discussed the results of this inspection with Mr. Mark Kanz, Senior Communications Representative, and other members of your staff. The results of this inspection are documented in the enclosed report.

The NRC inspectors did not identify any finding or violation of more than minor significance.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with Title 10 of the *Code of Federal Regulations*, Part 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

/RA/

Robert C. Daley, Chief  
Engineering Branch 3

Docket No.: 05000346  
License No.: NPF-3

Enclosure:  
IR 05000346/2019011

cc: Distribution via LISTSERV®

Letter to Mark Bezilla from Robert C. Daley dated May 28, 2019.

SUBJECT: DAVIS-BESSE NUCLEAR POWER STATION, UNIT 1—NRC TRIENNIAL  
FIRE PROTECTION INSPECTION; INSPECTION REPORT 05000346/2019011

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**U.S. NUCLEAR REGULATORY COMMISSION  
Inspection Report**

Docket Number: 05000346

License Number: NPF-3

Report Number: 05000346/2019011

Enterprise Identifier: I-2019-011-0037

Licensee: FirstEnergy Nuclear Operating Co.

Facility: Davis-Besse Nuclear Power Station

Location: Oak Harbor, OH

Inspection Dates: February 17, 2019, to June 1, 2019

Inspectors: I. Hafeez, Reactor Inspector  
J. Hanna, Senior Reactor Analyst  
J. Robbins, Reactor Inspector  
A. Shaikh, Senior Reactor Inspector

Approved By: Robert C. Daley, Chief  
Engineering Branch 3  
Division of Reactor Safety

## **SUMMARY**

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting a Triennial Fire Protection Inspection at Davis-Besse Nuclear Power Station, Unit 1, in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the NRC's program for overseeing the safe operation of commercial nuclear power reactors. Refer to <https://www.nrc.gov/reactors/operating/oversight.html> for more information. Findings and violations being considered in the NRC's assessment are summarized in the table below.

### **List of Findings and Violations**

No findings or violations were identified.

### **Additional Tracking Items**

None.

## **INSPECTION SCOPES**

Inspections were conducted using the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection unless otherwise noted. Currently approved IPs with their attached revision histories are located on the public website at <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2515, "Light-Water Reactor Inspection Program - Operations Phase." The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards.

## **REACTOR SAFETY**

### 71111.05T - Fire Protection

#### B.5.b Inspection Activities (IP Section 02.03) (1 Sample)

The inspectors evaluated the following B.5.b Mitigating Strategies:

Makeup to Condensate Storage Tank;  
Portable Sprays; and  
Command and Control.

#### Fire Protection Inspection Requirements (IP Section 02.02) (4 Samples)

The inspectors evaluated Fire Protection Program implementation in the following selected areas and/or fire zones, including analyzed electrical circuits:

- (1) Fire Area AB - ECCS Pump Room 1-1 and Make Up Pump Room;
- (2) Fire Area DF - No. 2 Electrical Penetration Room;
- (3) Fire Area E - Auxiliary Feed Pump Room 1-1; and
- (4) Fire Area Y - Low Voltage Switchgear Room E Bus.

Analyzed Circuits:

- Pressurizer Pilot Operated Relief Valve, Block Valve RC11;
- Circuit for Pressurizer Sample Containment Vent Header Valve RC200 and Pressurizer Vapor Sample Valve RC239A;
- Power Feed to the Auxiliary Shutdown Panel; and
- Circuit for Auxiliary Feed Water Valve AF3872.

## **INSPECTION RESULTS**

No findings were identified.

## **EXIT MEETINGS AND DEBRIEFS**

The inspectors verified no proprietary information was retained or documented in this report.

- On May 2, 2019, the inspector presented the Triennial Fire Protection Inspection results to Mr. Mark Kanz, Senior Communications Representative, and other members of the licensee staff.

**DOCUMENTS REVIEWED**

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.05T	Calculations	C-FP-013.06-028	Four AFW Pump Ventilation Openings in Barriers	0
		Calculation 15.12	Hydraulic Analysis for Fire Pump Sizing	07/27/1988
		OPS-GOP-S119	Time Critical Operator Action Time Validation for Scenario: Serious Control Room Fire	07/25/2018
		OPS-GOP-S119	Time Critical Operator Action Time Validation for Scenario: Serious Control Room Fire	09/27/2012
		OTL-AOP-DBS101	Time Critical Operator Action Time Validation for Scenario: Serious Station Fire #1 Electrical Penetration Room	08/17/2015
		OTL-AOP-DBS102	Time Critical Operator Action Time Validation for Scenario: Serious Station Fire #2 Electrical Penetration Room	08/07/2015
		OTLC 2017SD DBS103	Time Critical Operator Action Time Validation for Scenario: TCOA (Five) Electrical Penetration Rooms 1 and 2	01/05/2018
		OTLC-2013-04	Time Critical Operator Action Time Validation for Scenario: Serious Station Fire #1 Electrical Penetration Room	09/06/2013
		OTLC-DB-2013-04	Time Critical Operator Action Time Validation for Scenario: Serious Station Fire #1 Electrical Penetration Room	09/09/2013
	Corrective Action Documents	CR 2017-05188	Rusting Fire Protection Piping	05/06/2017
		CR 2017-09149	Fleet Oversight Evaluation - Fire Protection Program Resolution Timeliness	09/05/2017
		CR 2018-00488	Fire Suppression Pipe Joint Connector Separation Causes Leak and Electric Fire Pump to Start	01/18/2018
		CR 2018-05840	DBAI 2018 SA Post-Fire MOVs Not De-energized	06/26/2018
		CR 2018-08868	Calculation C-NSA-011.01.016 Does Not Consider Loss of UHS Inventory From TPCW Branch	10/09/2018
		CR-2018-00579	Corrective Actions to Improve Timeliness of Writing Condition Reports Ineffective	01/23/18

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		CR-2018-03793	Additional Concerns Identified with Floor Settling on 585' Elev Near Seal Oil Room	04/24/2018
		CR-2019-03997	ACB 34564 Tripped Open	04/30/2019
	Corrective Action Documents Resulting from Inspection	CR 2019-03176	2019 NRC TriFP - B.5.b Hose Testing Documentation	04/04/2019
	Drawings	528-53116	Job No. A173D-28644	2
		DB-OP-02600	Operational Contingency Response Action Plan	14
		Drawing E-892, SH 4	Raceway-Fire Alarm System Auxiliary Building Plan EL. 603'-0"	12
		Drawing E-892, SH 6	Raceway-Fire Alarm System Auxiliary Building Plan EL. 565'-0"	9
		Drawing E-892, SH 7	Raceway-Fire Alarm System Auxiliary Building Plan EL. 545'-0"	6
		E-52B Sh. 12	Elementary wiring Diagrams Reactor Cooling System RC PRZR PWR RLF SHUTOFF VLV	15
		E-699B	Connection Diagram Radio System	1
		E631B Sh.9	Connection Diagram Misc. Instruments Aux. BLDG. & CTMT. EL.545'-0"	3
		M-030A	Piping & Instrument Diagram Reactor Coolant System	72
		PFP-YD-STRAT	Protected Area Yard Strategy	4
	Miscellaneous	FHAR	Fire Hazards Analysis Report	28
		ML033490026	Safety Evaluation of Fire Protection Measures at the Davis-Besse Nuclear Power Station, Unit No. 1, Per Appendix R to 10 CFR 50	05/30/1991
		None	Staff Assignments and Fire Brigade Qualification Information for Crews 1 and 3	05/01/2019

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
	NDE Reports	Report No. BOP-VT-15-035	Visual Examination (VT) of Floor Drains in Electrical Penetration Room #1	05/06/2015
	71111.05T Procedures	DB-FP-00007	Control of Transient Combustibles	14
		DB-FP-00009	Fire Protection Impairment And Fire Watch	22
		DB-FP-00018	Control of Ignition Sources	12
		DB-FP-04005	Fire Brigade Equipment Quarterly Inspection	15
		DB-FP-04035	5 Year Flow Test	5
		DB-ME-04100	Emergency Lighting System Test	16
		DB-MM-09378	Limiter Manual Actuator Installation When Fire Causes a Motor Operated Valve to Fail (DH63, DH64, DH2733, and DH2734)	1
		DB-OP-02000	Emergency Procedure, RPS, SFAS, SFRCS TRIP, OR SG TUBE RUPTURE	31
		DB-OP-02501	Abnormal Procedure, Serious Station Fire	26
		DB-OP-02508	Control Room Evacuation	16
		DB-OP-02519	Abnormal Procedure, Serious Control Room Fire	24
		DB-SP-03366	Surveillance Test Procedure for Reactor Coolant System Vent Path Operability and PORV Test	24
		DBBP-OPS-0036	B.5.b Equipment Inventory	5
		ECP-16-0331	Make-up Flow Controller Valve Bailey RP1212 Converter Replacement	0
		NG-DB-00302	DBNPS Fire Protection Program	11
		PFP-AB-237	Protected Area Pre-Fire Plan, Fire Area E	4
		PFP-AB-427	Protected Area Pre-Fire Plan, Fire Area DF	4
		PFP-AB-429	Protected Area Pre-Fire Plan, Fire Area Y	4
PFP-CB-A208	Protected Area Pre-Fire Plan, Fire Area AB	4 and 7		

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
	Work Orders	WO 200704277	Encl 1 Emerge Light Emerg Lighting Sys Test	01/11/2019
		WO 200459898	5 Year Flow Test	07/29/2014
		WO 200499963	Tanks, Drains, and Basins Inspection	05/06/2015
		WO 200655206	Damper Visual Inspection 18 Months	08/27/2018
		WO 20084442	Door 119A Test	01/21/2019