

Entergy Nuclear Operations, Inc. Pilgrim Nuclear Power Station 600 Rocky Hill Road Plymouth, MA 02360

Peter J. Miner Manager, Regulatory Assurance

10 CFR 50.73

2.19.037

June 10, 2019

ATTN: Document Control Desk U.S. Nuclear Regulatory Commission Washington, DC 20555-0001

SUBJECT: Licensee Event Report 2019-003-00, Condition Prohibited by Technical

Specifications Involving the Mechanical Vacuum Pump

Pilgrim Nuclear Power Station NRC Docket No. 50-293

Renewed Facility Operating License No. DPR-35

The enclosed Licensee Event Report 2019-003-00, Condition Prohibited by Technical Specifications Involving the Mechanical Vacuum Pump, is submitted in accordance with Title 10 Code of Federal Regulations 50.73.

If you have any questions regarding this information, please contact me at 508-830-7127.

This letter contains no new regulatory commitments.

Sincerely,

Peter J. Miner

PJM/rjm

Enclosure:

Licensee Event Report 2019-003-00 Condition Prohibited by Technical

Specifications Involving the Mechanical Vacuum Pump

Letter No. 2.19.037 Page 2 of 2

cc:

NRC Region I, Regional Administrator NRC NRR Project Manager - Pilgrim NRC Senior Resident Inspector - Pilgrim

Enclosure

2.19.037

Licensee Event Report 2019-003-00, Condition Prohibited by Technical Specifications Involving the Mechanical Vacuum Pump

8NRC	FORM	366
(04-2017)		

U.S. NUCLEAR REGULATORY COMMISSION

ı	APPROVED	BY	OMB:	NO.	3150-0104

EXPIRES: 03/31/2020



LICENSEE EVENT REPORT (LER)

(See Page 2 for required number of digits/characters for each block)

(See NUREG-1022, R.3 for instruction and guidance for completing this form

Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the Information Services Branch (T-2 F43), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to Infocollects. Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0104), Office of Management and Budget, Washington, DC 20503. If a means

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On April 13, 2019, the operating crew placed the key lock switch for Main Steam Process Radiation Monitor (PRM) 1705-2D to the INOP position and restored the Mechanical Vacuum (MV) pump to ready state. Subsequent research into the INOP position for the PRM 1705-2D switch revealed that this action does not introduce a channel trip signal. Not placing the PRM in a trip condition with the MV pump restored to ready state, is a violation of Technical Specification Action Statement 3.8.2.A.2 to place the channel or associated trip system in trip within 24 hours.

There were no actual consequences to safety of the general public, nuclear safety, industrial safety, or radiological safety for this event.

This report is submitted in accordance with Title 10 Code of Federal Regulations 50.73(a)(2)(i)(B).

NRC FORM 366A

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0104

EXPIRES: 3/31/2020



LICENSEE EVENT REPORT (LER) **CONTINUATION SHEET**

(See NUREG-1022, R.3 for instruction and guidance for completing this form http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1022/r3/)

Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the Information Services Branch (T-2 F43), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0104), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection

1. FACILITY NAME	2. DOCKET NUMBER		3. LER NUMBER			
Pilgrim Nuclear Power Station	05000- 293	YEAR	SEQUENTIAL NUMBER	REV NO.		
		2019	- 003	- 00		

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BACKGROUND

The Mechanical Vacuum (MV) pump is provided to remove gases from the main condenser during plant startup and shutdown when steam is not available for the steam jet air ejectors.

The MV pump isolation instrumentation initiates a trip of the MV pump and isolation of the associated isolation valve following events in which main steam line radiation exceeds predetermined values. Tripping and isolating the MV pump limits the offsite doses in the event of a control rod drop accident.

The MV pump isolation instrumentation includes sensors, relays, and switches that are necessary to cause initiation of a pump isolation. The channels include electronic equipment that compares measured input signals with pre-established setpoints. When the setpoint is exceeded, the channel output relay actuates, which then outputs an isolation signal to the MV pump isolation logic.

EVENT DESCRIPTION

On April 13, 2019, the operating crew placed the key lock switch for Main Steam (MS) Process Radiation Monitor (PRM) 1705-2D to the INOP position and restored the MV pump to ready state. Subsequent research into the INOP position for the PRM 1705-2D switch revealed that this action does not introduce a channel trip signal. Not placing the PRM in a trip condition with the MV pump restored to ready state, is a violation of Technical Specification (TS) Action Statement 3.8.2.A.2 to place the channel or associated trip system in trip within 24 hours.

The event occurred during power operation while at 100 percent reactor power. The reactor mode selector switch was in the RUN position.

CAUSE OF THE EVENT

Not placing the affected MS PRM channel in a trip condition with the MV pump restored to ready state was a human performance error.

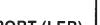
CORRECTIVE ACTIONS

After discovering that the INOP position for the MS PRM 1705-2D switch does not introduce a channel trip signal as expected, the MV pump was removed from ready state in accordance with TS Action Statement 3.8.2.B.1.

Any further corrective actions will be documented in the corrective action program.

NRC FORM 366A (04-2017)

U.S. NUCLEAR REGULATORY COMMISSION





LICENSEE EVENT REPORT (LER)
CONTINUATION SHEET

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SAFETY CONSEQUENCES

The MV pump is provided to remove gases from the main condenser during plant startup and shutdown when steam is not available for the air ejectors. The event occurred during normal power operation. Therefore, the MV pump was not in service, or required. As a result, there were no actual consequences to safety of the general public, nuclear safety, industrial safety, or radiological safety for this event.

REPORTABILITY

The condition is reportable under Title 10 Code of Federal Regulations 50.73 as a condition prohibited by TS.

PREVIOUS EVENTS

There have been no events reported in the last three years related to the MV Pump.

REFERENCES

CR-PNP-2019-02431