

## PRELIMINARY NOTIFICATION

May 4, 2020

### PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE - PNO-III-20-001

This preliminary notification constitutes EARLY notice of events of POSSIBLE safety or public interest significance. Some of the information may not yet be fully verified or evaluated and is basically all that is known by the Region III staff on this date.

#### Facility

Donald C. Cook Nuclear Plant, Unit 2  
Indiana Michigan Power Company  
Stevensville, MI  
Docket No: 50-316

#### Licensee Emergency Classification

Notification of Unusual Event  
 Alert  
 Site Area Emergency  
 General Emergency  
 Not Applicable

SUBJECT: UNPLANNED SHUTDOWN GREATER THAN 72 HOURS DUE TO REACTOR COOLANT SYSTEM LEAKAGE EXCEEDING TECHNICAL SPECIFICATION LIMITS

On May 1, 2020, at 10:00 a.m. (all times EDT), with the plant at full power, operators at the Donald C. Cook Nuclear Plant commenced a controlled plant shutdown in response to reactor coolant system (RCS) unidentified leakage.

On May 1, 2020 at 3:54 a.m., control room operators received alarms indicating elevated containment radiation, humidity, temperature, and sump levels. Operators diagnosed unidentified reactor coolant system leakage of approximately 8 gallons per minute. The licensee entered Technical Specification (TS) 3.4.13 Limiting Condition of Operation (LCO) Condition A for exceeding the unidentified leakage limit of 0.8 gallon per minute.

On May 1, 2020, at 9:45 a.m., licensee personnel entered Unit 2 containment and identified that the leak was from a pressurizer spray valve leak-off line, through a degraded cap. The licensee entered Technical Specifications 3.4.13 LCO Condition B for RCS leakage and will make necessary repairs before restart.

All other systems functioned normally. There was no impact on public health. Unit 1 remains at full power.

Region III received notification of this occurrence from the resident inspectors. The senior resident inspector responded to the site and monitored plant parameters and licensee actions to identify the leak source and shutdown and cooldown the plant. The NRC resident inspector staff, assisted by inspectors from the NRC Region 3 Office, continue to monitor licensee actions to identify the leak and continue to monitor the repair activities.

The State of Michigan has been notified.

This preliminary notification is issued for information only.

The information presented herein has been discussed with the licensee and is current as of 5:30 p.m. on May 4, 2020.

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Contact: Richard Skokowski  
630-829-9833  
[Richard.Skokowski@nrc.gov](mailto:Richard.Skokowski@nrc.gov)