



Date: 12/19/2023

To: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555

10CFR Part 21 Initial Notification: P21-12182023-IN, Rev. 0

Subject: Defect with Detroit Diesel/MTU Fuel Injectors PN R5229660 Cat ID# 0001390618

Paragon has identified a defect in the subject fuel injectors supplied as identified below.

Plant	Client PO#	Project Number	Serial #	QTY
Braidwood	01389979	PR23000356	2302008, 2304001 thru 2304015	16
Byron	01384756	PR23000189	2302001 thru 2302016 *	16
*SN 2302008 was ultimately installed at Braidwood				

Pursuant to 10CFR Part 21 § 21.21(d)(3)(i) Paragon is providing initial notification of a defect associated with the Auxiliary Feedwater Pump Diesel Engine fuel injectors supplied to Constellation as noted in the table above. The injectors were provided to Paragon for refurbishment in accordance with the customer purchase orders referenced above. On November 17, 2023, Constellation provided Paragon with Constellation/Braidwood Root Cause Report associated with Issue Report # 4703982 and the associated failure analysis report documenting potential defects with some fuel injectors supplied to Braidwood. The deficiencies reported allowed excessive fuel oil leakage which resulted in diesel lubricating oil system contamination above specified limits. On December 18, 2023, Paragon concluded our evaluation which determined this condition if left uncorrected could contribute to a substantial safety hazard and is reportable in accordance with 10CFR Part 21.

The extent of condition is limited to the Constellation Braidwood and Byron plants.

Paragon has entered this condition in our corrective action program. Affected injectors from PO 01389979 have been removed from service and returned to Paragon. Paragon is coordinating with Byron on recommended actions and will follow up with our final notification on or before 1/17/2024.

Date of Discovery: 12/18/2023

Sincerely,

Richard Knott

Vice President Quality Assurance, Paragon Energy Solutions.