



Date: 9/18/2026

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

10CFR Part 21 Initial Notification: P21-09182026-IN, Rev. 0

Subject: Defect with Ingersoll Rand/Paragon Compressor Part Number H7100X15 / H7100X10-MOD

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

Plant	Client PO#	Item #	Paragon Project #	Part #	Serial #	QTY.
AEP – DC Cook	C1005034	049704193201	PR22001090	H7100X10-MOD	016708-01-00001	1
	C1013348	7000001040	PR24001033	H7100X15	CBV982263, CBV982264, CBV982265, CBV982266, CBV982267, CBV982268	6

Pursuant to 10CFR Part 21 § 21.21(d)(3)(i) Paragon is providing initial notification of a defect associated with the Ingersoll Rand/Paragon Compressor skid as supplied in the table above. DC Cook reported failures in four compressors used during the starting sequence associated with Emergency Diesel Generators. Paragon conducted an initial detailed failure analysis with an Ingersoll Rand field technician which identified the compressors second stage valve plate gasket had blown out between the first and second stage pressure boundary, which caused increasing back pressure to the first stage and reduced pressure output to the receiver. Failed gasket material was entrapped in the valve seat causing high back pressure to be applied to the first stage. This in turn caused the first stage relief valve to lift limiting the output pressure from the compressor significantly below the design value. This same failure mode has been apparent with all identified failed compressors. With assistance from Ingersoll Rand, Paragon identified the compressor valve plate design was updated in 2022 and all compressors that experienced this same failure mode were manufactured in 2022 and after. Based on this, only compressors manufactured and supplied in 2022 or later are affected by this notification. Paragon is continuing to work with Ingersoll Rand to solidify the root cause of this failure type before issuing the final notification. This condition, if left uncorrected, could contribute to a safety hazard and is reportable in accordance with 10CFR Part 21.

Paragon has entered this condition in our Nonconformance Reporting System and is working with DC Cook to provide them with replacement compressors retrofitted with valve plates of the original design. Paragon will continue to work with Ingersoll Rand to gather additional information to determine if similar failures have been reported from other sources. Paragon also reviewed extensive industry operating experience with these compressors and did not identify any failures attributed with the same failure mode. Paragon recommends DC

Cook continue to monitor in-service compressors for signs of performance degradation and to report any deficiencies to Paragon for evaluation.

Sincerely,

Kenneth Morrison

Kenny Morrison
Vice President, Quality Assurance
Paragon Energy Solutions, LLC.

Event #: 58458	
Event Type: Part 21	
Reporting Org: Paragon	Notify Date/Time: 2026-09-18 12:07 (EDT)
Licensee: DC Cook	Event Date/Time: 2026-09-18 00:00 (CDT)
	Modify Date/Time: 2026-09-18 13:51
Region: 4	
City: Fort Worth	Agreement State: Yes
County:	License #:
State: TX	
Notified by: Kenny Morrison	Notifications: Part 21/50.55 Reactors, - EMAIL
HOO: Sam Colvard	R3 Events Group EMAIL
Emergency Class: Non Emergency	
10 CFR Sections:	
21.21(d)(3)(i) Defects And Noncompliance	
PART 21 - EMERGENCY DIESEL GENERATOR COMPRESSOR GASKET FAILURES	
The following information summary was provided by the licensee via phone and email:	
Paragon Energy Solutions has determined a defect exists in Ingersoll Rand/Paragon compressors supplied to the DC Cook plant, specifically part numbers H7100X10-MOD and H7100X15. DC Cook reported failures in four compressors used during emergency diesel generator startup, and Paragon's initial analysis found that the second-stage valve plate gasket had failed, allowing gasket material to enter the valve seat, creating excessive back-pressure, lifting the first-stage relief valve, and reducing compressor discharge pressure below required performance. All compressors exhibiting this failure mode were manufactured in 2022 or later following an updated valve plate design. Because this condition, if left uncorrected, could create a safety hazard, Paragon is submitting this initial notification in accordance with 10 CFR Part 21. The issue has been entered into Paragon's Nonconformance Reporting System, and replacement compressors equipped with the original valve plate design are being provided to DC Cook. Paragon is working with Ingersoll Rand to complete the root-cause evaluation, has reviewed industry operating experience with no similar failures found, and recommends that DC Cook continue monitoring in-service compressors for signs of degradation while the final Part 21 evaluation is completed.	
Point of Contact:	
Kenny Morrison	
Vice President, Quality Assurance	
Paragon Energy Solutions, LLC	
KMorrison@paragones.com	
817-284-0077	