

STExcite Capacitor Wear Issue

Issue

Certain STExcite gas turbine exciters manufactured in 2016 may experience early wear of a capacitor potentially resulting in arcing/sparking and shortened product life.

Description

A change in the construction of the capacitor resulted in potential wear that can cause the breakdown of the connection between lead wires and the capacitor film. This breakdown can result in arcing/sparking and shortened product life due to failure of the capacitor.

If arcing/sparking occurs, this will result in a deviation from the following hazardous location listings: ATEX and IECEx: Zone 2 Ex nA IIC T4 and North American (Canada/US): Class I Div 2, Groups A, B, C, D.

Affected Units

Part Number	Serial Number	Serial Number
8408-921	20411263	20421857
	20147301	20421856
	20147302	20421855
	20383370	20423060
	20386650	20423059
	20388371	20425206
	20390710	20425205
	20392716	20423207
	20397554	20425207
	20395430	20423058
	20397734	20423205
	20394387	20423206
	20400859	20433000
	20411262	20433002
	20336152	20412955
	20339670	20412956

Corrective Action

Woodward has taken steps with the capacitor manufacturer to bring the construction and fabrication of the capacitor back into compliance with the original design.

1. Sent updated performance requirements to the manufacturer.
2. Updated engineering drawing sent to the manufacturer.
3. Completed validation testing on the first new lot of capacitors and the first lot passed.
4. Woodward will continue to test past lots of capacitors and any returned product to clarify the degradation issue that potentially would lead to sparking within the STExcite module.

Customer Action

Customers must make a determination of the applicability of ATEX and IECEx: Zone 2 Ex nA IIC T4 and North American (Canada/US): Class I Div 2, Groups A, B, C, D for their specific applications. These regulations state that in normal application there is not expected to be explosive concentrations of flammable liquids and gasses, however the possibility for these concentrations may exist if there is an accidental rupture or other unexpected incident.

If the unit is in the table above, please return it to Woodward for replacement per the following:

Contact your Woodward customer service representative for a return authorization number (RAN) and return the unit(s) to Woodward.

Please refer to this service bulletin number 01635 when scheduling your return.

Woodward will perform service bulletin actions at no charge through or within the product warranty period.

Reference “WPJ #139496-04-1561” as part of the return authorization process.



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Complete address / phone / fax / email information for all locations is available on our website.