

# ASTA TEST REPORT

Laboratory Ref. No: **B25-17-AE-01E**

**APPARATUS:** 440V ( $U_e$ ), 50Hz, extendable Power Switchgear and Controlgear Assembly incorporating a three-phase and neutral horizontal and vertical tinned copper busbar system.

**DESIGNATION:** SAS Galfar Low Voltage Switchgear Assembly

**MANUFACTURER:** SAS Power Industries FZE  
(Subsidiary company of Galfar Al Misnad Engineering & Contracting WLL Qatar)  
P.O. Box 54505, Technology Park, RAKFTZ , Ras Al Khaimah. UAE

**TESTED BY:** TECNALIA Research & Innovation, Parque Científico y Tecnológico de Bizkaia  
Laida Bidea. Edificio 413, 48170 Zamudio, Spain

**DATES OF TESTS:** 9<sup>th</sup> February 2017

The apparatus, constructed in accordance with the description, drawings and photographs attached hereto has been examined in accordance with Client's instructions test procedures and requirement generally in accordance with::

## IEC/TR 61641 Edition 3.0 2014-09, Clauses 8 applying Criteria 1 to 5

Tests of the busbars compartment under the conditions of arcing due to an internal fault with a short-circuit current of 50kA ( $I_{p\ arc}$ ) and 65kA ( $I_{p\ arc}$ ) initiated in the middle of the main horizontal busbars and the incoming busbars respectively, at a rated operational voltage of 440V and arc duration of 100ms ( $t_{arc}$ ), applying criteria for an assembly providing personnel protection under arcing conditions.

**This is not a certificate of rating.** A certificate of rating could not be issued as the arc fault tests to IEC/TR 61641 Edition 3.0 do not establish a rating and only selected tests were performed.

The documents forming this Test Report are:

- (1) Record of proving tests: Pages 1 to 14
- (2) Diagram no.: B25-17-AE-01E / D01
- (3) Oscillogram nos.: B25-17-AE 003, 005, 007, 008 and 009
- (4) Photograph nos.: B25-17-AE-01E/P01 to P09 c)
- (5) Drawing nos.: SAS-ATT-001 - 4 sheets

The Record of Proving Tests applies only to the apparatus tested. The responsibility for conformity of any apparatus having the same designation with that tested rests with the Manufacturer.



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*C. Diack-Evans*  
..... C Diack-Evans  
ASTA Observer

*P. Gillon*  
..... Certification  
Manager

*14<sup>th</sup> August 2017*  
.....Date