Your Ref: 00002061

Our Ref: 7EZ070007

Cobham Technical Services
ERA Technology
Cleeve Road, Leatherhead
Surrey, KT22 7SA, England

T: +44 (0) 1372 367000
F: +44 (0) 1372 367099

Direct Dial: +44 (0) 1372 367369
Direct Fax: +44 (0) 1372 367085
steve.hendy @cobham.com

N M Donnellan
Structural Science Composites Ltd
Phoenix Business Centre
Phoenix Court
Phoenix Road
Barrow in Furness
LA14 2UA

23 April 2009

Dear Nuala,

ERA tested a composite cover by gradually increasing an a.c. voltage from zero to 80 KV (50 Hz) or until flashover occurred. The results of the tests are as follows:

1) Between the centre lock on the top of the cover to the pry point, on the top, at one end. 80 kV for 1 minute.

2) Between the centre lock on the top of the cover to the pry point, on the top, at the other end. 80 kV for 1 minute.

3) The sample was placed onto a copper plate and the test was applied between the plate and the centre lock on the top of the cover. Flashover occurred at 28 kV after 18 s.

4) Test 3 was repeated and flashover occurred at 25 kV after 12 s.

5) The sample was placed onto a copper plate and the test was applied between the plate and the pry point at the cut end of the sample, on the top of the cover. Flashover occurred at 52 kV after 30 s.

6) Test 5 was repeated and flashover occurred at 50 kV after 24 s.

7) The sample was placed onto a copper plate and the test was applied between the plate and the pry point at the good end of the sample, on the top of the cover. Flashover occurred at 49 kV after 23 s.

8) Test 7 was repeated and flashover occurred at 42 kV after 18 s.

An additional test using ERA's Schaffner impulse test set was performed on the composite cover. Three 8kV impulses with a wave shape of 1.2/50 µs were applied to the sample. The sample was tested between the centre lock on the top and the lifting point on the top of the cover. The sample was then tested between the centre lock and the base of the cover, directly below the lock, using sticky copper tape stuck directly onto the base. No flashover or breakdown occurred and the sample passed the impulse tests.

If you should have any further queries, please do not hesitate to contact ERA.

Regards

Steve Hendy MIET