

OFFICIAL



MINISTRY OF DEFENCE

H Peterson C.Eng MIMechE RCNC

Head of Maritime Materials Technology

DES NAG-MT

Elm 1c # 4134

MoD, Abbeywood

Bristol, BS34 8JH

Tel: 030 679 35050

Fax: 0117 913 5943

Email: DESNAG-MT@mod.uk



Naval Authority

Mr Mark Dougan
Westley Group
Doulton Road
Cradley Heath
West Midlands
B64 5QN

Our Reference:

D/STG/169/6/2/17

Date: 27th August 2014

Dear Mr Dougan,

Route approval for the supply of various gunmetal shaft liners to Def Stan 02-304 Part 1 or NES 304 Part 1

Reference 1: Westley Group. – Quality Control Plan for the supply of BS EN 1982 CC492K to Def Stan 02-304

Reference 2: Email dated 16.07.2014 from Mark Dougan, Westley Group. to Dean Haley, MoD

David Flemington and Dean Haley conducted a pre-qualification audit of Spunalloys Ltd. facilities on 29th January 2014 in order for Spunalloys Ltd. to complete an MoD agreed programme as detailed in Reference 1. The programme of work and testing for approval was completed against an actual order for a Balino shaft liner (Reference 2). Pouring and casting of the CC492K material took place on 17th June 2014. The manufactured shaft liner and mechanical test report completes the route approval process for centrifugally cast shaft liners to Def Stan 02-304 up to 344 mm outside diameter.

All the test results provided have been carefully assessed and the Naval Authority Group is satisfied with the processing, quality control and the properties obtained in the centrifugally cast trial. I am pleased to inform you that Spunalloys Ltd, part of Westley Group, is now approved for the supply of gunmetal shaft liners (CC492K/LG4) to the limits and restrictions given below:

Table 1

Product Type	Max OD (mm)	Max Wall Thickness (mm)	Length (mm)
Shaft Liner	344	25	—

Please note that the route approval only applies to:

1. Gunmetal shaft liners manufactured at Spunalloys Ltd. facilities in Cradley Heath, West Midlands.
2. This route approval only applies to castings up to the dimensions stated in Table 1 above. (post machining).
3. This route approval only applies to castings processed using the sequence detailed in Def Stan 02-830.

Yours sincerely,

Helen Peterson
Head of Materials
Head Naval Authority Group

Defence Equipment & Support

OFFICIAL