

EDUCATION, SCIENCE AND TRAINING

SENATE LEGISLATION COMMITTEE – QUESTIONS ON NOTICE 2003-2004 BUDGET ESTIMATES HEARING

Outcome: CSIRO
Output Group: CSIRO

DEST Question No. E105_04

Senator Carr asked on 4 June 2003.

Question:

- (a) Can you confirm that while much of the winch equipment was originally manufactured by Bratvaag (and the new winch valves), that the new winch now causing trouble was locally manufactured?
- (b) Will the repair work in Darwin be undertaken by Bratvaag? If not, why not? If NO, Have they been asked?
- (c) Who is doing it then?
- (d) Can you confirm that a representative of the Hobart manufacturers is going to Darwin to carry out these repairs?
- (e) How long will this work take - what is involved?
- (f) How much are the repairs expected to cost?
- (g) Is that person going under warranty, or at CSIRO's expense?
- (h) Have they provided a warranty for this work? What are the terms of that warranty?

Answer:

CSIRO has provided the following response.

Southern Surveyor – Winches – Repair work

- (a) Most of *Southern Surveyor's* winches were built and supplied by Bratvaag. The CTD and Coring winches were built, by Taylor Brothers in Hobart, by extensively modifying existing Bratvaag winches to meet the new requirements.
- (b) No. Bratvaag is based in Norway and a recent estimate from them to supply an engineer for six days was over A\$40,000. There has been extensive consultation with a Rolls Royce (who now own Bratvaag) engineer in New Zealand regarding the repairs to the CTD winch motor. He has offered advice and provided the parts required for the repairs.
- (c) A Taylor Brothers engineer and fitters will carry out the repairs to the CTD winch.
- (d) See above.
- (e) It is expected the repairs will take about a week. The drums will be removed from the CTD winch. The motor will be dismantled, repaired and reassembled. The alignment of the

shafts will be checked and the reason for the misalignment determined. Modifications to the winch base, frame or supports to correct the misalignment and prevent any reoccurrence will be carried out. The outer support bearings will be replaced and the drums refitted. The winch will be tested and the controls recalibrated. Once the winch is working satisfactorily a Darwin contractor will take the wire off both drums and re-spool them under 2 tonnes tension.

(f) It is difficult to estimate the cost of the repairs until the problem in the winch motor is identified and the cause of the misalignment is determined, as well as what modifications are necessary.

(g) The contractors are going to Darwin initially at CSIRO's expense, until the cause of each problem is identified and costs apportioned appropriately.

(h) Taylor Brothers have provided normal warranty for the construction of the winches. Any costs for repairs or modifications necessary to ensure the winch is working as originally specified that are due to manufacturing or design deficiencies will be met by the contractor.