R/V Kilo Moana
Load Handling System
‘The Good, the Bad, and the Ugly’

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Ocean Technology Group
University of Hawaii
Research Vessel Technical Enhancement Committee Meeting
Bermuda, November 15-18, 2010
In the beginning.....
Load Handling Design Requirements

University of Hawaii / SOEST
Research Vessel Kilo Moana
01 Deck - Deck Bolt Layout
Enter Caley Ocean Systems, Inc.

Proposal

Scientific Load Handling Systems
R/V KILO MOANA and CAPE HENLOPEN Replacement Vessel

University of Delaware RFP-7057-2
Caley Ref E4549
27 May 2005
Caley Winch/Crane System
2009 Factory Acceptance Tests
January 2010 – Portland, Oregon
The Good

- Launch
- Deploy/Recover
- Motion Compensation
The Good

CTD Pressure Over Time

- Pressure
- Acceleration

Time (seconds)

Motion Compensation: OFF

Motion Compensation: ON

Standard deviation: pressure with mo-comp ON: 1.06 db
Standard deviation: acceleration with mo-comp ON: 0.085 m/s

w/ mo-comp OFF: 2.13 db
w/ mo-comp OFF: 0.785 m/s
The Bad

From: Master, R/V Kilo Moana
Sent: Friday, March 19, 2010 7:25 AM
To: Port Ops - Gray Drewry
Cc: Port Eng - John Nikola; Marine Sup - Stan Winslow; Tim McGovern; Chief Engineer - Kilo Moana; Chief Mate - Kilo Moana; Victor Polidoro

Subject: loss of Caley winch motor, blackout, loss of bow thruster
The Ugly
Repairs & Modifications
Current Status
Future Plans
Thanks! ....Questions?