



ECWP

Pool Update RVTEC 2024



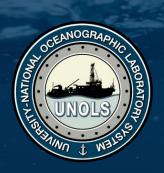






ECWP

East Coast Winch Pool Update RVTEC 2024









Purpose



What Do We Do For You

Winch Rental

- Hertz Rental of Winches
- From Super Cars to Daily Drivers

What Do We Do For You

Push the Advancement of OHS Components

 Push Manufacturers to Make Better Equipment

Winch Rental

- Hertz Rental of Winches
- From Super Cars to Daily Drivers

What Do We Do For You

oint O Expertise

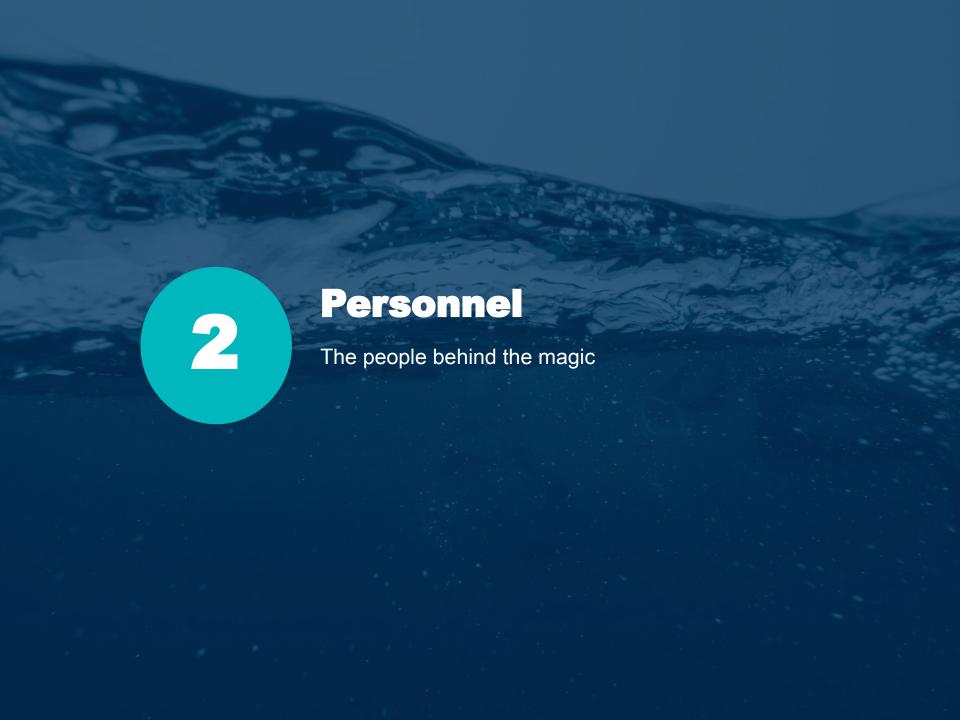
- Answer all Winch Questions
- Provide Purchase Assistance
- Provide Design Assistance

Push the Advancement of OHS Components

 Push Manufacturers to Make Better Equipment

Winch Rental

- Hertz Rental of Winches
- From Super Cars to Daily Drivers



East Coast Winch Pool Personnel



Engineer

Joshua Eaton Brainy



System Maintenance

Jamie Haley
Wrenchy



Manager

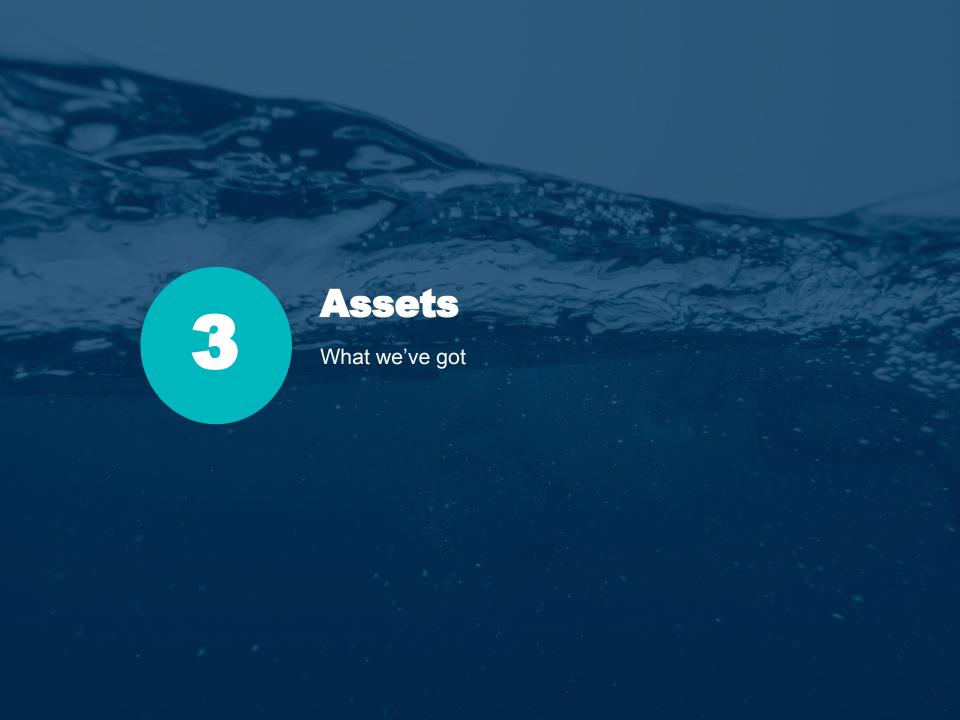
Brian Guest Bookie



Manager

Brian Guest Retiring









Moe MASH2K-1



Larry MASH2K-2



Curly MASH4K-1



Shemp MASH4K-2



Gloria SPRE-2530 S



Godzilla SPRE-3464



Monk Dynacon 1007



Donnie Dynacon 10030



Marie Dynacon 10030



Joe SPRE- 2648



Cletus & Cooter SD-70



Jay Jay

Sheaves

½" Harken Block

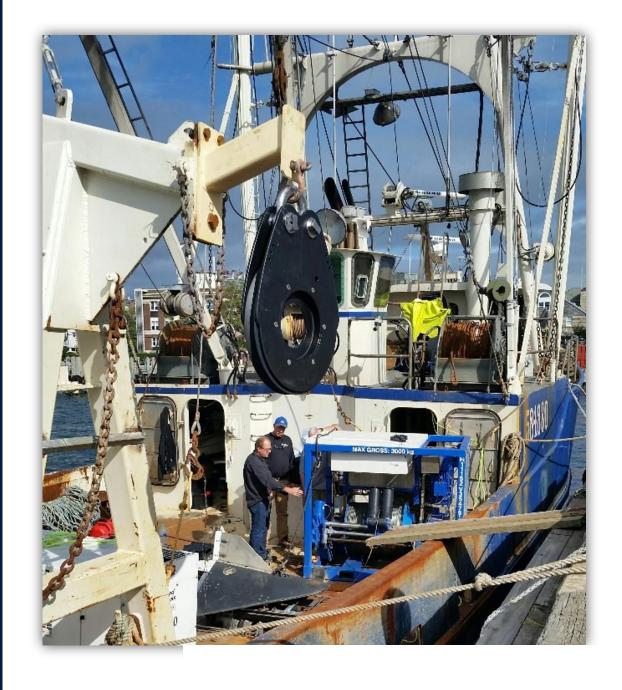
0.322 Harken Block

0.322 Trace Metal Block

36" 0.681 Block

Wide Groove Metering Block

¼ " Trace Metal Block





Other Assets

2 MRUs

Electrical Sliprings

Fiber Optic Rotary Joints

Load Cells

220 to 480 Transformer

Winch Turn Tables

Tensioners

Pine Hill







Tensioners

Barney







Tensioners

Leitheiser

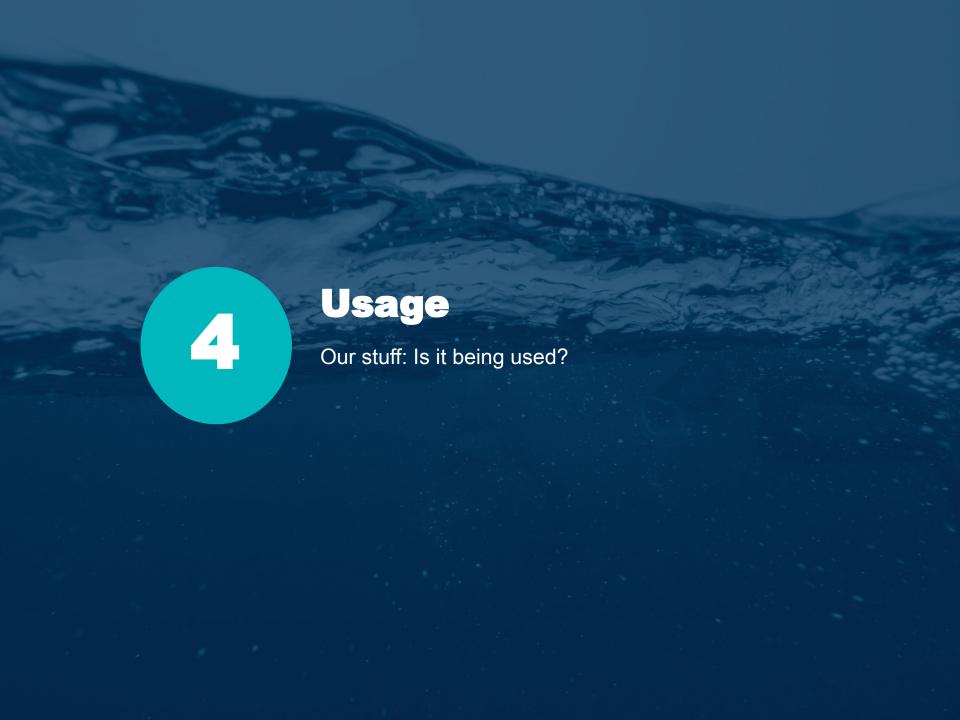










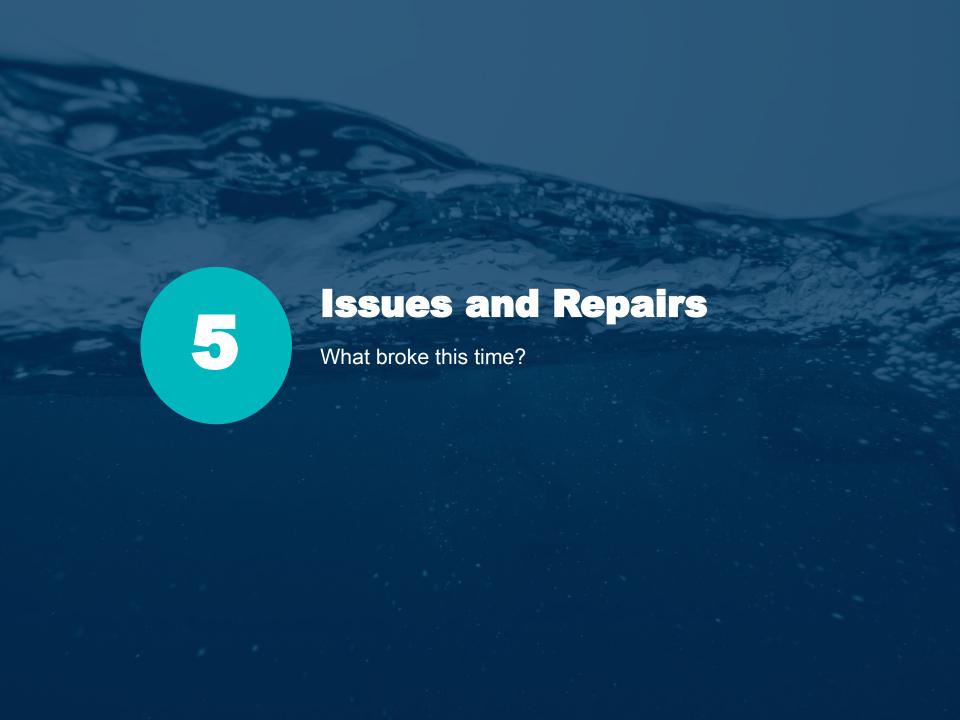


Fulfilled Winch Requests

3 winches have not left the shop this year: Gloria, Donnie, & Marie

This year has had longer deployments. The shop was empty all summer.





1

Load Pin Failure

Gloria's load pin sent out for repair.

Problems encountered this year

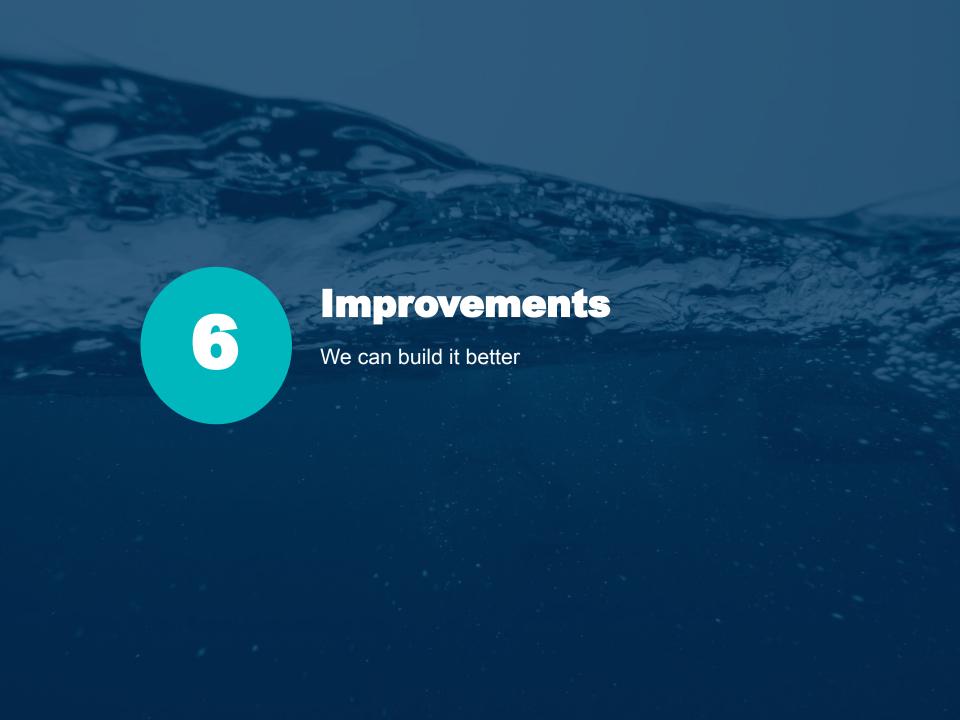
Pine Hill

Various sensors failed, as well as remote control potentiometer.

Electrical enclosure replaced.

Encoder Wobble

Jay Jay's encoder shaft was bent previously, Even with the repaired shaft the wobble was present. Encoder Wobble Caused speed fluctuations



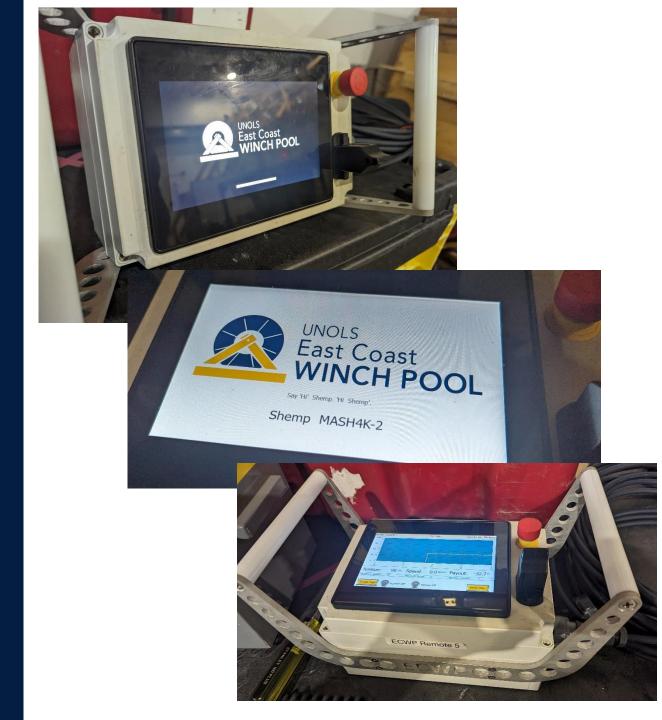
ECWP Remote

User Interface

Connection Process

Splash Screen

Long Extensions



ECWP_Winch_Data_Program	- o x
Live Data W	/inches Update Check About
Cruise Name SR2407	Data Source JayJay Cast Number 3 Start Log Log Max
Update Cruise Name	10
Select Winches	
Larry	8
Curly	6
JayJay	
	2
	THE DEPTH AND THE STATE OF THE
	Tension lbf Speed m/min Payout m
	Max Tension Iof Max Speed milmin Max Rayout m
	Data Source Curly Cast Number 1 Start Log Log Max
	10-
	8
	6
	4
	-
	Tension lbf Speed m/min Payout m Max Tension lbf Max Speed m/min Max Payout m



ECWP Data Collection Program

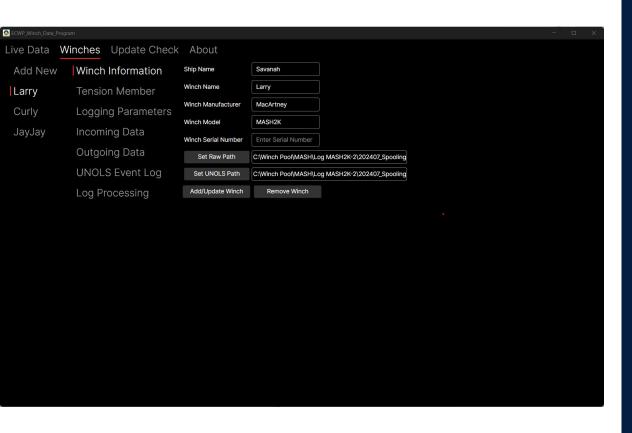
Supports Additional Winches

Multi-Winch Plotting

Cross Platform

Appendix A Visual Warnings and Alarms

UNOLS Wire Pool Compliant Log





ECWP Data Collection Program

Add additional devices

Additional processing options

Allow the user to define input string

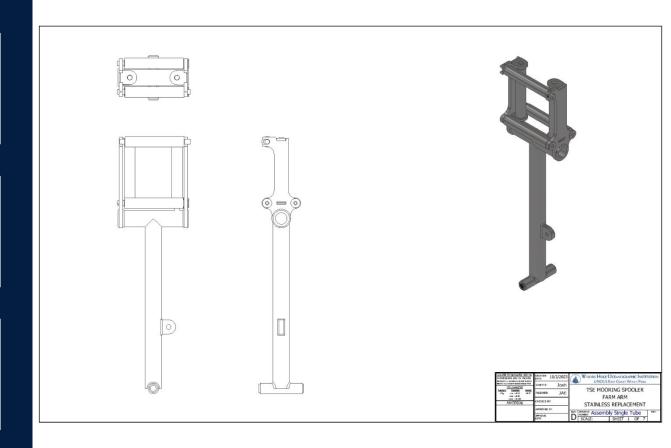
Create sheave path diagrams

Cletus & Cooter

Stainless Steel Rollers (Both)

> Stainless Steel Farm Arm (Cletus)

New Arm Has Proved Robust





Jay Jay

Operator Platform

Improved Metering

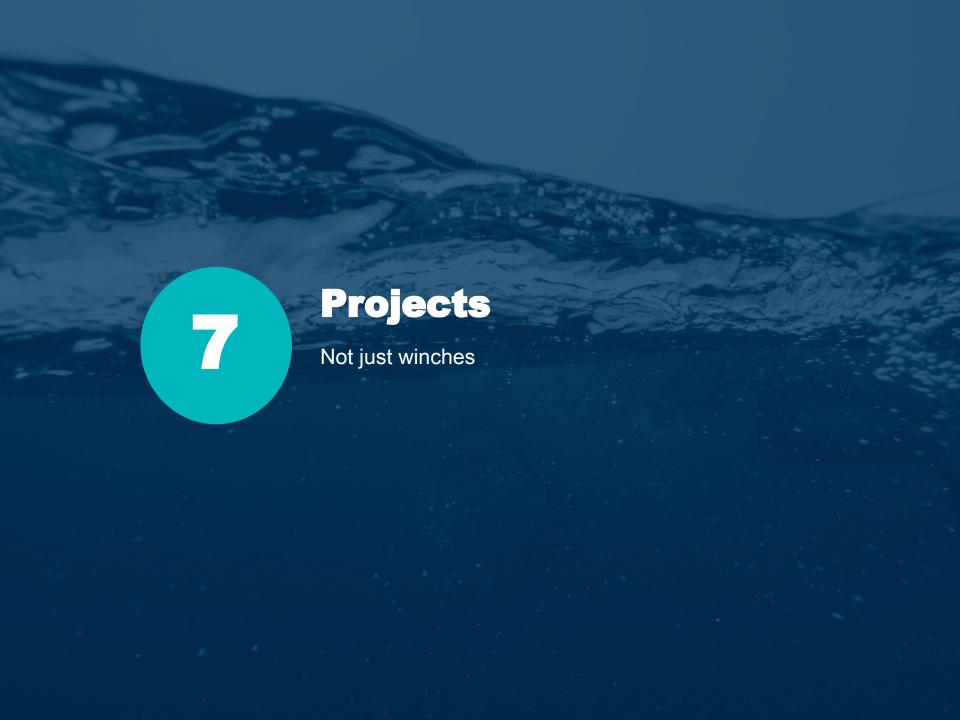
Removed Encoder Wobble

Godzilla

New Spare Parts Enclosure

> Power Cord Storage



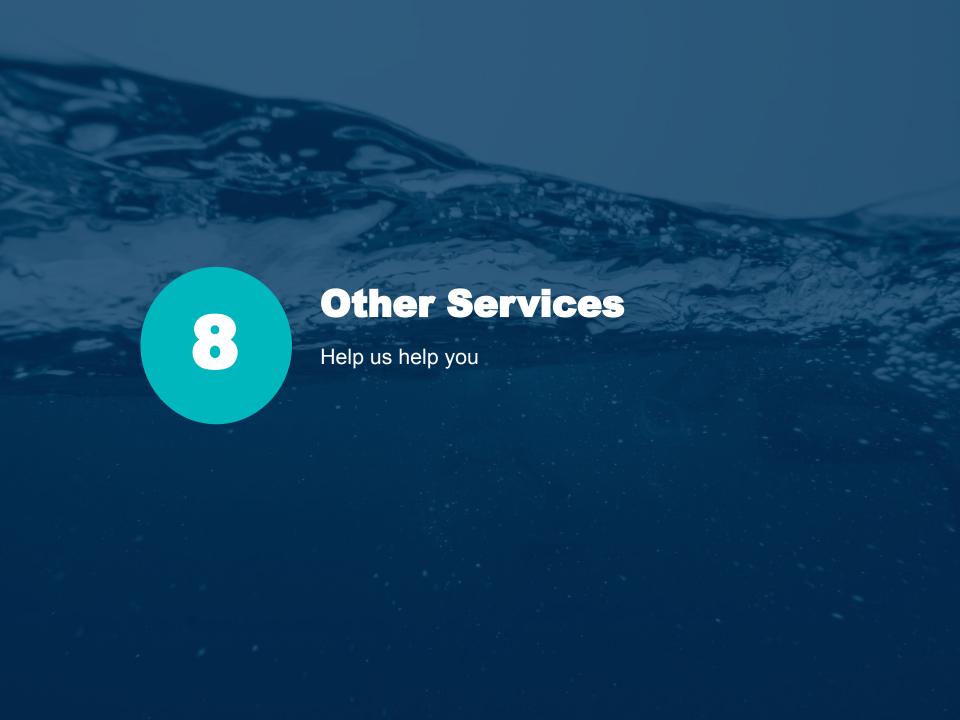


USAP Winch Platform



Test Tower





Services

Acquisition **Assistance**

Testing Plans

Training

LCI-90i &RPC-90x Oversight

> **Technical Assistance**



UNOLS East Coast Winch Pool

MASH2K Test Plan

The purpose of this test plan is to meet the requirements of UNOAS RVSS Appendix B and to provide the users with safe and functioning equipment. This document seeks to quantify and qualify the series of tests needed and to provide a complete and thorous

These tests must be performed continuous operations. If a piec

2 Tests

2.1 Functional Tests

2.1.1 Verify safe power up Visually inspect the wiring, con-

Apply power to the equipment. Turn on the equipment and look 2.1.2 Verify Operation of Cont

Check for spring return on joyst Check that joysticks move the re Verify that the E-Stop is function Verify that all additional contro

2.2 Static Tests

2.2.1 Equipment Required

MASHZK

 Shower
 Shower Cable
 Dynamometer
 Overhead Crane
 125% SWT Weight (400) Suitable Tension Memb

2.2.2 Bare Drum Static Pull Te Wrap a suitable tension membe Woods Hole, Oceanographic

Hawboldt Test Plan

1 Introduction

2.1 Functional Tests

2.1.1 Verify safe power up

2.2.1 Equipment Required

Sheave
 Power Cable
 Dynamometer

· Overhead Crane 125% SWT Weight (5000 lbf)

Suitable Tension Member

Connect the tension member to the sh-Using the winch controls fully exercis-

2.2.2 Bare Drum Static Pull Test

Hawboldt

Visually inspect the wiring, connector Apply power to the equipment. Turn on the equipment and look for a:

2.1.2 Verify Operation of Controls

Check for spring return on joysticles as Check for spring return on joyattes as Check that joyaticks move the equipm Verify that the E-Stop is functional. Verify that the levelwind controls turn Verify that all additional controls func

The purpose of this test plan is to meet the requirements of UNONS RVSS Appendix B and to provide the users with safe and functioning equipment. This

provide a complete and thorough guid continuous operations. If a piece of ec

Woods Hole, Oceanographic

Cantilevered Dynacon Winch Test Plan

MS 159, 356 Woods Hale Road, Woods Hale, MA 83543

The purpose of this test plan is to meet the requirements of UNOLS RVSS Appendix B and to provide the users with safe and functioning equipment. This document seeks to quantify and qualify the series of tests needed and to provide a complete and thorough guide to those tests.

These tests must be performed twice in every five year period with no longer than 3 years between any two tests for continuous operations. If a piece of equipment is out of compliance it must be tested prior to use.

2.1.1 Verify safe power up

Visually inspect the wiring, connectors, hydraulic lines, and controls for problems. Apply power in the equipment.

Turn on the equipment and look for any faults.

2.1.2 Verify Operation of Control

Check for spring return on joysticles and momentary switches. Check that joy-ticks move the equipment in the current direction. Verify that the E-Stop is functional.

Verify that the level wind controls function property Verify that all additional controls functional

7.7 Static Tosts

Cantilevered Dynason

 Cantilevered Dynason
 Sheave
 Power Cable
 Dynamometer
 Overhead Crane
 125% SWT Weight (4375 lbf) Suitable Tension Member

2.2.2 Bare Drum Static Pull Test

Wrap a suitable tension member on the drum with a minimum of 8 wraps. Connect the tension member to the shop dynamoneter and the dynam Using the winch controls fully exercise the maximum haulback force.





Upcoming

Additional Tracemetal Winch

Replacement for Jed

Test Tower Completion

Questions?

WOODS HOLE OCEANOGRAPHIC INSTITUTION