

Hawboldt SPRE-3464 Operator Training Checklist & Record

NSF West Coast Winch Pool

Trainee Name: **Jonathan Fram**

Start Date of Training: **2024-03-15**

Print

✓	Training Item
Features and Specifications	
X	Read section 2.0, "SPECIFICATION", in the Installation, Operation, and Maintenance Manual.
X	The maximum pull at bare drum is 10,000 lbf. This tension should not be exceeded during normal operation.
X	The maximum line speed at bare drum is 30 m/min.
X	The maximum pull at full drum is 3,950 lbf.
X	The maximum line speed at full drum is 70 m/min.
X	The drum capacity is 2,400 m of 1" dia. cable/wire rope/line.
X	The winch may be used with cables, lines, or wire ropes having breaking strengths as high as 20,000 lb.
X	The winch may be used with cables, lines, or wire ropes having a diameter as small as 1/4" and as large as 1".
X	The winch's levelwind sheave can be fitted with grooves of various sizes.
X	The winch's size is 128" X 75" X 97" (length X width X height) in its operating configuration.
X	The winch weighs 9,000 lb. (empty drum).
X	The winch features a clamp for 1/2" dia. tension members (see section 3.1.4 of the operation manual for location).
X	The winch features a belly pack and 40' cord for remote payout control and levelwind operation.
X	The winch has a 50' power cable.
Set-Up and Installation	
X	Read section 3.0, "INSTALLATION", in the Installation, Operation, and Maintenance Manual.
X	Drawing 34-00304-000 REV. B illustrates the layout and footprint of the winch.
X	The winch includes a 8-bolt pattern compatible with a 2' X 2' deck socket arrangement.
X	1"-8 UNC 316 SST (40 ksi yield strength) or stronger bolts must be used to fasten the winch to a vessel's deck.
X	Deck reaction forces are included in the winch's Maximum Capability Document.
X	The levelwind must be utilized if tension and payout measurements are required.
X	If the levelwind is utilized, ensure the sheave groove size is suitable for your operation.
X	The winch must be positioned to achieve a horizontal fleeting angle of 5 degrees or less.
X	The winch must be positioned to achieve a vertical fleeting angle between -10 degrees and +45 degrees.
X	For best accuracy, the load pin should be recalibrated each time the winch is installed on a vessel (see "TENSION SETUP" in section 5.2.5 of the Installation, Operation, and Maintenance Manual).
X	Electrical connection details may be found in schematic 7400371 and interconnection diagram 7400373.
X	The winch requires 3-phase, 480VAC, 60 Hz, 90A electrical power.
N/A	If used, the belly pack cable connects to the side of the VFD panel (large panel at the operating station).
X	The winch has a fixed core current transducer that secures power to the brake resistor and stops the winch if the brake resistor becomes grounded. This transducer is subject to radio interference. During the set-up phase, operate the ship's portable radios near the winch while turning the winch drum. If the winch is stopped, and a "brake chopper ground fault" is indicated when the radios are operated, reset the alarm, and increase the transducer current trigger threshold: log in on the main menu, choose "winch setup", "VFD settings", and increase the "Leak Threshold". Go back to the main menu. Repeat this experiment until the radios are no longer interfering with winch operation.
X	The username and password to log into the winch are "operate", and "0046", respectively.
X	If the username and password are forgotten, they are in the manual (p. 24).

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Safety	
X	Read section 4.0, "SAFETY", in the Installation, Operation, and Maintenance Manual.
X	The winch has a grounding strap that must be attached to the vessel before the winch is energized. It's located on the winch frame near the (operator's) left side of the VFD panel.
X	Ensure the winch is in good working condition before energizing.
X	Ensure all controls move freely and are in the neutral position before energizing.
X	Ensure all personnel are clear of moving gear before energizing and operating controls.
X	Always be present at the controls when the winch is operating.
X	Never use the winch to carry or lift people.
X	Do not exceed the winch's maximum load ratings.
X	An indication of the winch's load is on the line control screen. If it indicates more than 100% or more you are overloading the winch.
X	When the winch is overloaded the load indicator on the line control screen changes color, an alarm sounds, and the winch stops if the load isn't reduced.
X	Know who is in charge of the working deck is and follow their directions.
X	STOP the winch if communications with the person in charge are lost or confused.
X	STOP the winch when a mechanical or control problem is detected.
X	STOP the winch if any safety or operational concern arises.
X	EMERGENCY STOP switches are on both the local console and the belly pack remote.
Mooring Operations	
X	Read section 5.0, "SYSTEM OPERATION", in the Installation, Operation, and Maintenance Manual.
X	Know how to carry out all procedures in manual section 5.1, <i>WINCH REGULAR OPERATION – STEP BY STEP GUIDE</i>
X	Know how to navigate from the "Main" screen to the "Line Control" screen (see manual sections 5.2.1-5.2.3).
X	Understand all the indications and functions contained in the "Line Control" screen (see manual section 5.2.3).
X	Know how to place the levelwind in "Manual LW" mode on the "Line Control" screen.
X	Know how to manually move the levelwind with the levelwind joystick.
X	Know how to haul in and pay out using the winch joystick.
X	Know how to open the levelwind sheave as required to (see manual section 5.3.1).
Maintenance	
X	Read drawing 34-00304-082 "SPRE-3464 LUBRICATION DIAGRAM".
X	Lubricate locations G1 to G10 at the specified intervals with EP2 grease.
X	EP2 grease and an appropriate grease gun are provided in the spares kit.
X	After lubricating the winch, select "Winch Runtime" on the main menu to navigate to the "WINCH RUNTIME" menu. Ensure "Maintenance Required Warning Hours" is set to 20 hours, then press "Reset" to reset the maintenance alarm.
X	
Documentation	
X	Trainee has reviewed the Installation, Operation, and Maintenance Manual (REV. 1).
X	Trainee has reviewed the general arrangement, drawing 34-00304-000 (REV. B).
X	Trainee has reviewed the electrical schematic, drawing 7400371 (REV. D).
X	Trainee has reviewed the interconnect diagram, drawing 7400373 (REV. C).
X	Trainee has reviewed the Maximum Capability Document (REV. 1).

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X	Trainee has reviewed the lubrication diagram, drawing 34-00304-082.
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Training Completion

Trainee Name
(Print) *Jonathan*

Jonathan Fram

Trainer Name
(Print)

Trainee
Signature

DocuSigned by:

Jonathan Fram

Trainer
Signature

Rank/Rate
scientists

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Rank/Rate

Date 2024-03-
15

3/19/2024 | 11:00:13 PDT

Date

Master's
Signature

