Vessel	Date	Tension Mbr	Winch	Length	NSF Reel #

Appendix A Assist Summary for Each Wire, Cable or Synthetic Tension Member	Updated 1_9_2024 JMS/wec						
Note: This is not all inclusive. See Appendix A RVSS Edition 11 for requirements and operational insights.	Select Applicable Column FS						
Requirement or Attribute For Steel Tension Members	FS of 5.0 or highe	FS from 2.5 to	FS from 2.0 to	FS from 1.5 to	Compliant	Comments	
Post Cable/Wire SWT in clear view of the winch operator	Applies	Applies	Applies	Applies	Y/N		
General							
Determine Cable/Wire Safe Working Load (SWT) as: Assigned Breaking Load / Factor of Safety (A.8.1)	Applies	Applies	Applies	Applies	Y/N		
Lubricate tension member <12 months (A.5.8)					Y/N		
Fresh Water Wash (lesser of: end of cruise or < 1 month) (A.5.9)					Y/N		
Develop Extenuating Circumstance Procedure (A.8.4)	Applies	Applies	Applies	Applies	Y/N		
Tension Monitoring							
Have ability to keep load < SWT: (A.8.1) May be calculated w/"g" factor at least 0.75 or from Tensiometer	Applies				Y/N		
Have ability to keep load < SWT: Actual from monitoring system		Applies	Applies	Applies	Y/N		
Tensionometer display at operator's station with 3 Hz refresh rate		Applies			Y/N		
Tensionometer display at operator's station with 10 Hz refresh rate			Applies	Applies	Y/N		
Tension continuously monitored using a tension trending graph			Applies	Applies	Y/N		
Tensionometer logging at 3 Hz		Applies			Y/N		
Tensionometer logging at 20 Hz			Applies	Applies	Y/N		
Tensionometer Recalibration at least every 6 mo.		Applies	Applies	Applies	Y/N		
Tension measuring system maintained with 4% accuracy		Applies			Y/N		
Tension measuring system maintained with 3% accuracy			Applies	Applies	Y/N		
Alarms							
Audible and visual tension alarms w/data logging		Applies			Y/N		
Audible and visual tension alarms w/data logging			Applies		Y/N		
Audible and visual tension alarms w/data logging				Applies	Y/N		
Alarm conditions automatically logged		Applies	Applies	Applies	Y/N		
Sheaves and Fairlead Rollers	A 1:			<u> </u>	> () 1		
Sheaves & Rollers: As large as practical (A.8.1)	Applies	A 11		A 1:	Y/N		
Sheaves & Rollers: D/d ratio meet 40:1 or 400d1 whichever is		Applies	Applies	Applies	Y/N		
Sheaves: Groves as close to d as practical and no more than 1.5d Sheaves: Groves per Ref A 1.1		Applies			Y/N		
(Groove size relative to nominal diameter of wire rope: 3/16" to 1/4" 3% to 6%; over 1/4" 2.5% to 5%)			Applies	Applies	Y/N		
Note: Allowance from June 2023 update that 9/16 in. dia. 3X19 wire							
rope may be used on sheaves with a groove dia. between .576 in.							
and .748 in. provided the sheave tread diameter is 27 in. or more.							
Deck Safety							
Good safety practices (A.8.1)	Applies				Y/N		
Establish danger zones / safety zones		Applies	Applies	Applies	_		
Warning notices posted			Applies	Applies	Y/N		
Physical or visual barriers			Applies	Applies			
Doors and accesses secured			Applies	Applies	Y/N		

Vessel	Date	Tension Mbr	_ Winch _		ength		_ NSF	Reel	#
Testing							1		
resung	Break Testing 6	every 2 yrs (A.8.1)		Applies	Applies			Y/N	
Break Testin		ecrease in ABL or cutback	(A 8 1)	Applies	Applies			Y/N	
Broak rootiir		ting every yr	(7 (1011)	1 10		Applies	Applies	Y/N	
Break Test		0% decrease in ABL or cu	ıtback			Applies	Applies	Y/N	
		er: Cable Inventory/Histor							
Running Use		•							
Lo	gs stay with the wir	res transfer with the wire		Applies	Applies	Applies	Applies	Y/N	
		Break Testing		Applies	Applies	Applies	Applies	Y/N	
	Log C	Cutbacks		Applies	Applies	Applies	Applies	Y/N	
	Log Spoolir	ng Operations		Applies	Applies	Applies	Applies	Y/N	
		ubrication		Applies	Applies	Applies	Applies	Y/N	
		Description		Applies	Applies	Applies		Y/N	
		out for each cast.		Applies	Applies	Applies	Applies	Y/N	
		t by calculation or monitori	ng.	Applies	Applies	Applies	Applies	Y/N	
Winch Operat								>//>	
· ·		in writing by master and o		Applies				Y/N	
Operator "C	•	t" in writing by master and diannually.	owner		Applies	Applies	Applies	Y/N	
Master verif	fy qualifications and	d designate approved ope	rators.		Applies	Applies	Applies	Y/N	
Training re	cord for formal ope	rator training program for v	vinch,		Applies	Applies	Applies	Y/N	
ha	andling apparatus,	and monitoring system.			Applies	Applies	Applies	I/IN	
				F0 -f					
	Requirement or Attribute For			FS of 5.0 or	Compliant	Comments			
	Synthetic Te	nsion Members		highe Ö					
General					1	1			
Communication		Wire Pool for the synthetic per use.	tension	Applies	Y/N				
A Synthetic	Tension Member o	perated to a nominal FS =	5.0 on	Applies	Y/N				
_	Design	ate SWT		Applies	Y/N				
Po	st SWT in clear vie	w of the winch operator		Applies	Y/N				
		Circumstance Procedure mbers, not specific to syntlement	hatics)		Y/N				
Tension Monit		inbers, not specific to synth	ielics)						
Terision Moni		keep load < SWT:		Applies	Y/N				
Tanaian maa			10 11-	Applies	Y/N				
		a display refresh rate of							
		ed using tension trending		Applies Applies	Y/N Y/N				
		efresh of 20 Hz (every 5			Y/N Y/N				
		ibrated at least every 6 naintained with an accur		Applies Applies	Y/N Y/N				
Alarms	casaring system i	namianica with an accui	acy or	Applies	1 / IN				
	a evetem fitted with	n both audible and visual to	ansian						
		lluminate prior to FS of 5.6		Applies	Y/N				
	Fairlead Rollers								
				1					

Sheaves & Rollers: D/d ratio meet 40:1

Y/N

Applies

Deck Safety	-		
"Danger Zones" identified around tension members under	Applies	Y/N	
All personnel excluded from Danger Zones (to the extent possible) such that a sudden failure cannot result in injury .	Applies	Y/N	
Warning notices displayed at points of access.	Applies	Y/N	
Physical and/or visual barriers.	Applies	Y/N	
Doors and accesses to the overboarding area secured	Applies	Y/N	
Testing			
Tension member samples sent for testing prior to use.	Applies	Y/N	
Tension member samples sent for testing after use.	Applies	Y/N	
Logbooks: UNOLS Tension Member identifier: Winch and system manufacturer: Cable Inventory/History and Running Use			
Record of all spooling operations	Applies	Y/N	
Record of all cut backs, including those due to re-terminating.	Applies	Y/N	
Number and/or duration of deployments since last break test.	Applies	Y/N	
Maximum tension of each deployment and line out at time of maximum tension.	Applies	Y/N	
Maximum payout of each deployment.	Applies	Y/N	
Description of the sheave train.	Applies	Y/N	
Winch and system manufacturer.	Applies	Y/N	
The log transferable with the tension member.	Applies	Y/N	
Highly recommended* that the NSF Wire Pool Data Base be used to meet above requirements.	*	Y/N	
Winch Operator			
Certification by the Winch Owner that all Winch Operators are	Applies	Y/N	
Written documentation in place showing that each operator has been through and successfully passed a formal owner/operator developed training program on the (a) winch, (b) handling apparatus, and © monitoring system.		Y/N	
Master verification that operators are qualified.	Applies	Y/N	
Master verification that operators are designated.	Applies	Y/N	

Applies

Applies

Y/N

Y/N

Vessel_____ Date _____Tension Mbr ____ Winch ____ Length ____ NSF Reel # ____

Suggestions: Please contact Ted@beechhillbison.com

Operator certifications renewed annually by Master.

Operator qualifications refreshed and documented if there are

configuration changes to controls or to the hardware.