

Appendix A Assist Summary for Each Wire or Cable (draft 11/11 JMS/wec)					
Note: This is not all inclusive. See Appendix A Rev 1for requirements.	Select Applicable Column FS				
Requirement or Attribute	FS of 5.0 or higher	FS from 2.5 to 4.99	FS from 2.0 to 2.49	FS from 1.5 to 1.99	FS= —
Post Cable/Wire SWL in clear view of the winch operator (good practice)	Applies	Applies	Applies	Applies	Y/N
General					
Determine Cable/Wire Safe Working Load (SWL) as: Assigned Breaking Load / Factor of Safety	Applies	Applies	Applies	Applies	Y/N
Tension Monitoring					
Have ability to keep load < SWL: May be calculated w/"g" factor at least 1.75 or from Tensiometer	Applies				Y/N
Have ability to keep load < SWL: Actual from monitoring system		Applies	Applies	Applies	Y/N
Tensionometer display at operator's station with 3 Hz resolution		Applies			Y/N
Tensionometer display at operator's station with 10 Hz resolution			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 Alarm at < ABL/2.8		Applies			
Audible and visual tension alarms w/data logging Alarm at <ABL/2.2			Applies		Y/N
Audible and visual tension alarms w/data logging Alarm at <ABL/1.7				Applies	Y/N
Alarm conditions automatically logged		Applies	Applies	Applies	Y/N
Sheaves and Fairlead Rollers					
Sheaves & Rollers: As large as practical	Applies				Y/N
Sheaves & Rollers: D/d ratio meet 40:1 or 400d1 whichever is greater		Applies	Applies	Applies	Y/N
Sheaves & Rollers: Groves as close to d as possible and no more than 1.5d		Applies			Y/N
Appropriate Sheaves: Groves per Ref A 1.1 (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
Deck Safety					
Good safety practices	Applies				Y/N
Establish danger zones / safety zones		Applies	Applies	Applies	Y/N
Warning notices posted			Applies	Applies	Y/N
Physical or visual barriers			Applies	Applies	Y/N
Doors and accesses secured			Applies	Applies	Y/N
Testing					
Tension testing up to SWL load every 2 years. Break testing not req'd at FS=5.0	Applies				Y/N
Break Testing every 2 yrs		Applies			Y/N
Break Testing every yr if 10% decrease in ABL or cutback		Applies			Y/N
Break Testing every yrs			Applies	Applies	Y/N
Break Testing every 6 mo. if 10% decrease in ABL or cutback			Applies	Applies	Y/N

Logbooks: UNOLS wire identifier: Cable Inventory/History and Running Use					
Logs stay with the wires transfer with the wire	Applies	Applies	Applies	Applies	Y/N
Log of Tension Testing to SWL	Applies				Y/N
Log of wire Break Testing		Applies	Applies	Applies	Y/N
Log Cutbacks	Applies	Applies	Applies	Applies	Y/N
Log Spooling Operations	Applies	Applies	Applies	Applies	Y/N
Log of Lubrication	Applies	Applies	Applies	Applies	Y/N
Wire Train Description	Applies	Applies	Applies	Applies	Y/N
Maximum load for each cast by calculation or monitoring (and payout).	Applies	Applies	Applies	Applies	Y/N
Winch Operator					
Operator deemed competent in writing by master and owner	Applies				Y/N
Operator "Certified Competent" in writing by master and owner renewed annually.		Applies	Applies	Applies	Y/N
Master verify qualifications and designate approved operators.		Applies	Applies	Applies	Y/N
Training record for formal operator training program for winch, handling apparatus, and monitoring system.		Applies	Applies	Applies	Y/N