# STREAMGAGING CABLEWAY INSPECTION CHECKLIST

Station Name:	Number;
Review previous inspection form. List any important notes:	
Cable Type: EEIP EIP SS Other; Cable Diameter:in;	Clear Span:ft; Design Sag:ft
	Right Left Bank (cable car side)
ANCHOR: Anchor Type: Mass – Sidehill – Rock (Vertical or Horizontal	/ U-bar or Pin) – Tree – Other;
Dimensions: HWD; Height above ground:; T	ree species:; Tree diameter:;
Is U-bar installed in the vertical plane? Y N; at correct angle	e (in line with angle of main cable)? Y N
Anchors clean of debris: Y N-> Soil – Weeds – Bushe	es – Trees – Other;
Signs of deterioration: Concrete Y N; Rock Y N; Tree	Y N; Cable connections Y N
If YES, Explain:	
Fractures: Y N; Movement: Y N; Rust-Corrosion on	U-bar: Y N
If YES, Explain:	· · · · · · · · · · · · · · · · · · ·
Notes:	
FOOTERS: Footing type: Pedestal – Pier – Slab – Other	
Dimensions: HWD; Height above ground level:	; Remarks:;
Support footers clean of debris: Y N> Soil - Weeds	Bushes – Trees Other:;
41-1-	1

APPENDIX 41-1:

STREAMGAGING CABLEWAY INSPECT Signs of deterioration of concrete: Y N; Fractures Y N; Movement Y N
Attachments: Pins Bolts Other ; Rust/Corrosion/Missing Nuts ?: Y N; Explain :
Notes:
MAIN CABLE: Unloaded Sag:; Angle to anchor:; Cable Length (A-frame to anchor):;
U-bar to cable: Socket – Turnbuckle – Clevis – Direct (must have thimble) – Other
Thimbles where required?: Y N; Cable turnback length:;
Cable clips: Y N; Type:; Installed properly?: Y N Explain
Number:; Proper torque?: Y N; Proper spacing: Y N; Spacing:inches
$Signs \ of \ deterioration \ to:  Y  N  Cable-Socket-Turnbuckle-Clevis-Thimbles-Clips-Other$
If yes, what?: Rust - Corrosion - Flaking - Broken/Kinked strands - Items missing - Cracks - Other
Explain
Is main cable span free of debris, brush, and other obstructions: Y N
Are cable car routes from A-frames to banks free of trees, brush, and other obstructions: Y $$ N $$
Other
BACKSTAY/GUYLINES: Cable use: Backstay – Guyline; Cable Type: EEIP EIP SS Other; Cable Diameter:in
Auxiliary U-bar(s)?: Y N; Connection at A-frame: Eyebolt – Welded steel loop – Other
Eyebolt/Loop diameter; Forged?: Y N; Shouldered?: Y N; Remarks:
41-1- 2

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U-bar to cable: Direct – Other; Thimbles where required?: Y N; Cable turnback length:;
Cable clips: Y N; Type:; Installed properly?: Y N Explain;
Number of clips:; Proper torque?: Y N; Proper spacing: Y N; Spacing:inches
Signs of deterioration: Y N Cable – Eyebolt – Thimbles – Clips – Other
If yes, what?: Rust - Corrosion - Flaking - Broken/Kinked strands - Items missing - Cracks - Other
Explain;
AIRCRAFT WARNING MARKER: Is warning device required? Y N
Is warning device in place ? Y N
CABLE SUPPORTS : Support type: A-frame (steel – pipe – wood) – Tower – Vertical beam – Tree
Base width:Height:; Cross members?: Y N; Tree species:; Tree diameter:;
Signs of deterioration: Y N; If yes, what?: Fatigue – Rust – Corrosion – Wood decay
Explain;
Configuration of base: Rigid – Hinge (pin); Are all components in place?: Y N Explain:;
Platform: Y N; Material:; Bolts/welds: VG G P; Grated: Y N; Handrails: Y N
Height above ground:; Climbing device: Ladder – Bolts – Steps – Other
Is Fall Protection required: Y N
Main cable support: Saddleblock – Sheave – Other; D/d ratio > 10: Y N
Does groove size match cable diameter?: Y N Explain;
41-1- 3

## APPENDIX 41-1:

## STREAMGAGING CABLEWAY INSPECTION CHECKLIST

CABLE CAR: Гуре: HIF → Stand up – Sit down Has retrofit b	een installed? V N
Other → Stand up – Sit down – Power; Material: S	
Signs of deterioration: Y N; If yes, where?: Hanger bars – Sh	
What?: Bent – Twisted – Deformed – Cracked – Rotted – Other	
Explain	
Bolts/Nuts: Rusted – Loose – Missing – Other; Remarks:	
Overall condition based on visual inspection: Good Fair Poor	
Notes:	
	Right Left Bank

Anchor Type. Wass - Stuchin - Kock (Venteal of Horizontal / O-bai of Thir) - Tree - Other,
Dimensions: H_W_D_; Height above ground:; Tree species:; Tree diameter:;
Is U-bar installed in the vertical plane? Y N; at correct angle (in line with angle of main cable)? Y N
Anchors clean of debris: Y N Soil – Weeds – Bushes – Trees – Other ;
Signs of deterioration: Concrete Y N; Rock Y N; Tree Y N; Cable connections Y N
If YES, Explain:;

## STREAMGAGING CABLEWAY INSPECTION CHECKLIST

Fractures: Y N; Movement: Y N; Rust/Corrosion on U-bar: Y N
If YES, Explain:;
Notes:;
FOOTERS: Footing type: Pedestal – Pier – Slab – Other;
Dimensions: H_W_D_; Height above ground level:; Remarks:;
Support footers clean of debris: Y N
Signs of deterioration of concrete: Y N; Fractures Y N; Movement Y N
Attachments: Pins Bolts Other; Rust/Corrosion/Missing Nuts ?: Y N; Explain :;
Notes:;
MAIN CABLE:   Unloaded Sag:; Angle to anchor:;   Cable Length (A-frame to anchor):;
MAIN CABLE:
MAIN CABLE:   Unloaded Sag:; Angle to anchor:;   Cable Length (A-frame to anchor):;
MAIN CABLE:   Unloaded Sag:; Angle to anchor:;   Cable Length (A-frame to anchor):;   U-bar to cable: Socket – Turnbuckle – Clevis – Direct (must have thimble) – Other;
MAIN CABLE:   Unloaded Sag:; Angle to anchor:;   U-bar to cable: Socket – Turnbuckle – Clevis – Direct (must have thimble) – Other;   Thimbles where required?: Y N; Cable turnback length:;
MAIN CABLE:   Unloaded Sag:; Angle to anchor:;   Cable Length (A-frame to anchor):;   U-bar to cable: Socket – Turnbuckle – Clevis – Direct (must have thimble) – Other;   Thimbles where required?: Y N; Cable turnback length:;   Cable clips: Y N; Cable turnback length?: Y N Explain;
MAIN CABLE:   Unloaded Sag:; Angle to anchor:; Cable Length (A-frame to anchor):;   U-bar to cable: Socket – Turnbuckle – Clevis – Direct (must have thimble) – Other;   Thimbles where required?: Y N; Cable turnback length:;   Cable clips: Y N; Type:; Installed properly?: Y N Explain;   Number:; Proper torque?: Y N; Proper spacing: Y N; Spacing:;

41-1-

#### **APPENDIX 41-1:**

5

#### STREAMGAGING CABLEWAY INSPECTION CHECKLIST

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BACKSTAY/GUYLINES: Cable use: Backstay – Guyline; Cable Type: EEIP EIP SS Other; Cable Diameter:in
Auxiliary U-bar(s)?: Y N; Connection at A-frame: Eyebolt – Welded steel loop – Other;
Eyebolt/Loop diameter; Forged?: Y N; Shouldered?: Y N; Remarks:;
U-bar to cable: Direct – Other; Thimbles where required?: Y N; Cable turnback length:;
Cable clips: Y N; Type:; Installed properly?: Y N Explain;
Number of clips:; Proper torque?: Y N; Proper spacing: Y N; Spacing:inches
Signs of deterioration: Y N Cable – Eyebolt – Thimbles – Clips – Other
If yes, what?: Rust - Corrosion - Flaking - Broken/Kinked strands - Items missing - Cracks - Other
Explain;
CABLE SUPPORTS: Support type: A-frame (steel – pipe – wood) – Tower – Vertical beam – Tree
Base width:Height:; Cross members?: Y N; Tree species:; Tree diameter:;
Signs of deterioration: Y N; If yes, what?: Fatigue – Rust – Corrosion – Wood decay
Explain;
Configuration of base: Rigid – Hinge (pin); Are all components in place?: Y N Explain:;
Platform: Y N; Material:; Bolts/welds: VG G P; Grated: Y N; Handrails: Y N
Height above ground:; Climbing device: Ladder – Bolts – Steps – Other
Height above ground:; Climbing device: Ladder – Bolts – Steps – Other Is Fall Protection required: Y N

#### N CHECKLIST

Door groove size match ashle diameter?	STREAMGAGING CABLEWAY INSPECTIO
	Y N Explain;
Signs of deterioration of saddle block: Y	N; If yes, what?: Rust – Corrosion – Decay – Other;
Notes:	;
	y system complete and accurate: Y N (Update as required)
What is the maximum stage this cableway	can be safely used:;
Is this stage posted in the gage house: Y	N; Is this stage posted on the cableway: Y $N$
<b>INSPECTION RESULTS:</b> THIS CAB Explanation for any of the above items cor	
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\*\*\* If cableway system is determined to be UNSAFE, it must be removed from service until repairs can be made. Lock the cablecar with a non-USGS lock or remove the cablecar completely at this time.

I certify that the inspection was conducted on this date, all elements of the cableway were checked, deficiencies found were noted on the hazard elimination log, and if necessary, the cablecar was locked or removed until repairs can be made.

7 41-1-

#### **APPENDIX 41-1:**

## STREAMGAGING CABLEWAY INSPECTION CHECKLIST

Inspected by	Title	Date
Reviewed by		Date