STREAM-GAGING CABLEWAYS
USGS – Inspection Checklist

Station Name Number
Review previous inspection form. List any important notes:
Cable Type: Cable Diameter in; Clear Span ft; Design Sag ft

Left Bank
(cable car side)

ANCHOR:
Anchor Type:
Dimensions: L W D ; Height above ground ; Tree species ; Tree diameter
U-bar diameter ; installed in the vertical plane? at correct angle?
Anchors clean of debris? ➔
Signs of deterioration? Concrete Rock Tree Cable connections
If YES, Explain
Fractures? Movement? Rust-Corrosion on U-bar?
If YES, Explain
Notes

FOOTERS:
Footing type: Dimensions: L W D ; or Diameter Depth
Height above ground level ; Remarks
Support footers clean of debris? ➔
Signs of deterioration of concrete? Fractures? Movement?
Attachments: Rust/Corrosion/Missing Nuts?
Notes

MAIN CABLE:
Unloaded Sag Angle to anchor ; Cable Length (A-frame to anchor)
Connection at anchor:
Thimbles where required?
Cable clips? Type Installed properly? Explain
Cable turn-back length Number of clips ; Proper torque?
Signs of deterioration? 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?
Are cable car routes from A-frames to banks free of trees, brush, and other obstructions?
Other

BACKSTAY/GUYLINES:
Cable use: Cable Type: Cable Diameter in
Auxiliary U-bar(s)? Connection at A-frame:
Eyebolt/Loop diameter Forged? Shouldered?: Remarks
U-bar to cable: Thimbles where required? Cable turn-back Length
Cable clips? Type ; Installed properly? Explain
Number of clips Proper torque?
Signs of deterioration? Cable Eyebolt Thimbles Clips Other
If YES, What?
Explain

AIRCRAFT WARNING MARKER:
Is warning device required? (SM 445-2-H CHAPTER 27)
Is warning device in place?

CABLE SUPPORTS :
Support type:
Base width Height ; Cross members? Tree species ; Tree diameter
Signs of deterioration? If YES, What?
Explain
Configuration of base: Are all components in place? Explain
Platform? Material ; Bolts/welds: Grated? Handrails?
Height above ground ; Climbing device: Other
Is Fall Protection required? (SM 445-2-H CHAPTER 44)
Main cable support: Diameter ; D/d ratio > 10?
Does groove size match cable diameter? Explain
Signs of deterioration of saddle block? If YES, What?
Notes

CABLE CAR:
Type: HIF ➔ Is retrofit needed? Installed?
Other: ➔ Material:
Tested per SM 445-2-H CHAPTER 41? Explain
Signs of deterioration? If YES, Where? Hanger bars Sheaves Seats Floor Other
What? Bent Twisted Deformed Cracked Rotted Other
Explain
Bolts/Nuts: Rusted Loose Missing Other: Remarks
Overall condition based on visual inspection:
Notes

Right Bank

(non-cable-car side)

ANCHOR:

Anchor Type:

Dimensions: L W D ; Height above ground Tree species Tree diameter

U-bar diameter ; Installed in the vertical plane? At correct angle?

Anchors clean of debris: ➔

Signs of deterioration? Concrete: Rock: Tree: Cable connections:

If YES, Explain

Fractures? Movement? Rust-Corrosion on U-bar?

If YES, Explain

Notes

FOOTERS:

Footing type: ; Dimensions: L W D or Diameter Depth

Height above ground level ; Remarks

Support footers clean of debris? ➔

Signs of deterioration of concrete? Fractures? Movement?

Attachments: Rust/Corrosion/Missing Nuts?

Notes

MAIN CABLE:

Unloaded Sag Angle to anchor ; Cable Length (A-frame to anchor)

Connection at anchor:

Thimbles where required?

Cable clips? Type Installed properly? Explain

Cable turn-back length Number of clips Proper torque?

Signs of deterioration? Cable Socket Turnbuckle Clevis Thimbles Clips Other

If YES, What? Rust Corrosion Flaking Broken/Kinked strands Items missing Cracks Other

Explain

BACKSTAY/GUYLINES:

Cable use: Cable Type: Cable Diameter in

Auxiliary U-bar(s)? Connection at A-frame:

Eyebolt/Loop diameter Forged? Shouldered? Remarks

U-bar to cable: Thimbles where required? Cable turn-back length

Cable clips? Type Installed properly? Explain

Number of clips Proper torque?

Signs of deterioration? Cable Eyebolt Thimbles Clips Other

If YES, What?

Explain

CABLE SUPPORTS :

Support type:

Base width ; Height ; Cross members? Tree species Tree diameter

Signs of deterioration? If YES, What?

Explain

Configuration of base: Are all components in place? Explain

Platform? Material Bolts/welds: Grated? Handrails?

Height above ground Climbing device: Other

Is Fall Protection required? (SM 445-2-H CHAPTER 44)

Main cable support: Diameter ; D/d ratio > 10?

Does groove size match cable diameter? Explain

Signs of deterioration of saddle block? If YES, What?

Notes

Are office records describing this cableway system complete and accurate? (Update as required)

What is the maximum stage this cableway can be safely used?

Is this stage posted in the gage house? Is this stage posted on the cableway?

Is the cable car locked in place to prevent unauthorized use? Type of lock

Warning signs in place? Describe (number, type, etc.):

Is USGS contact information clearly visible on cableway (SM 445-2-H CHAPTER 7)?

INSPECTION RESULTS: THIS CABLEWAY IS SAFE TO USE:

Explanation for any of the above items that need to be addressed:

1.
2.
3.
4.
5.
6.

If a cableway system is determined to be UNSAFE, it must be removed from service until repairs can be made. Lock the cable car with a sturdy lock and/or remove the cable car completely at this time.

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

Inspection Completed by Title Date

Supervisory Review by Title Date