

Upper Lillooet Hydro Project

Weekly Environmental Monitoring Report #20

Reporting Period: May 4th – May 10th, 2014

Upper Lillooet River Hydroelectric Facility (Water File No. 2002561, Water licence No. C130613),
Boulder Creek Hydroelectric Facility (Water File No. 2003049, Water licence No. C129969) &
Transmission Line (TX Line)

*Environmental Assessment Certificate No.E13-01 (Amendment 3)
Fisheries Act Subsection 35(2)(b) Authorization No. 09-HPAC-PA2-00303*

Leave To Commence Construction (ULRHEF) File No. 2002561

Leave To Commence Construction (BDRHEF) File No. 2002453

Leave To Commence Construction (TX Line) File No. 2002561/2002453

Licence of Occupation (ULRHEF #232384) File No. 2409871

Licence of Occupation (BDRHEF #232386) File No. 2409998

Licence of Occupation (TX Line #2423386) File No. 2410654


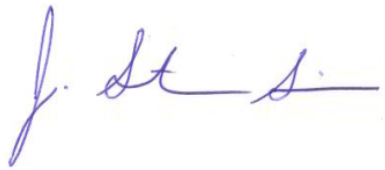
Occupant Licence to Cut (ULRHEF Amendments 1 & 2) No. L49717

Occupant Licence to Cut (BDRHEF – km 38 laydown) No. L49698

Occupant Licence to Cut (Additional Area for HEFs Amendment 2) No. L49816

Occupant Licence to Cut (TX Line S.1-S5, Heli Pads) No. L49697 (Amendment 1)

*General Wildlife Measure Exemption Approval Letter (TX Line & BDRHEF) File No. 78700-35/06 UWR and 39585-20 WHA
Road Use Permit No. 6123-13-02*

Distribution List		Prepared By
Name	Organization	
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D'Arcy Soutar	Westpark Electric Ltd.	
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Harriet VanWart	Lil'wat Nation	

ACRONYMS:

AMBNS	Active Migratory Bird Nesting Survey
ASMP	Archaeological Sites Management Plan
BCEAO	British Columbia Environmental Assessment Office
BCWQG	British Columbia Water Quality Guidelines
BDRHEF	Boulder Creek Hydroelectric Facility
BG	Background
BKL	BKL Consultants Ltd.
CRT-ebc	CRT-ebc Construction Inc.
DFO	Fisheries and Oceans Canada
DS	Downstream
Ecofish	Ecofish Research Ltd.
Ecologic	Ecologic Consulting
ESC	Erosion and Sediment Control
FSR	Forest Service Road
GWR	Mountain Goat Winter Range
Hedberg	Hedberg and Associates Ltd.
IEM	Independent Environmental Monitor
Innergex	Innergex Renewable Energy Inc.
ITM	Issue Tracking Matrix
LTC	Leave to Construct
MFLNRO	Ministry of Forests, Lands and Natural Resource Operations
MOE	Ministry of Environment
RVMA	Riparian Vegetation Management Area
SES	Sartori Environmental Services
TX Line	Transmission Line
ULRHEF	Upper Lillooet River Hydroelectric Facility
UWR	Ungulate Winter Range
VC	Valued Component
WQ	Water Quality
WEL	Westpark Electric Ltd.
WEMR	Weekly Environmental Monitoring Report

1.0 Summary of Site Inspections for Reporting Period

The table presented below summarizes the IEM team site presence, weather and monitoring locations by component:

Day	Date	IEM Team Personnel	Weather Conditions	Monitoring Locations & Key On-site Environmental Information
Sunday	May 4	MS	Sunny	Construction Camp <ul style="list-style-type: none"> Site grading and sub-grade preparation Boulder Powerhouse <ul style="list-style-type: none"> Stripping and grubbing of the spoil area and powerhouse footprint Upper Lillooet Powerhouse <ul style="list-style-type: none"> Stripping and grubbing of the powerhouse footprint
Monday	May 5	MS	Sunny	Construction Camp <ul style="list-style-type: none"> Site grading and sub-grade preparation Boulder Powerhouse <ul style="list-style-type: none"> Stripping and grubbing of the spoil area and powerhouse footprint completed Upper Lillooet Powerhouse <ul style="list-style-type: none"> Stripping and grubbing of the powerhouse footprint
Tuesday	May 6	TH	Sun and Cloud	Construction Camp <ul style="list-style-type: none"> Site grading and final capping material installation Upper Lillooet Powerhouse <ul style="list-style-type: none"> Stripping and grubbing of the powerhouse footprint
Wednesday	May 7	TH	Sun and Cloud	Construction Camp <ul style="list-style-type: none"> Site grading and final capping material installation Upper Lillooet Powerhouse <ul style="list-style-type: none"> Stripping and grubbing of the powerhouse footprint
Thursday	May 8	TH,MS	Sun and Cloud	Construction Camp <ul style="list-style-type: none"> Site grading and final capping material installation Boulder Intake Access Road <ul style="list-style-type: none"> Access road and roadside ditch repair Upper Lillooet Powerhouse <ul style="list-style-type: none"> Stripping and grubbing of the powerhouse footprint
Friday	May 9	TH,MS	Sun and Cloud	Construction Camp <ul style="list-style-type: none"> Site grading and final capping material installation Boulder Intake Access Road <ul style="list-style-type: none"> Access road and roadside ditch repair Boulder HEF and Blasting Material Magazine Area <ul style="list-style-type: none"> Clearing within approved OLTC boundaries Upper Lillooet Powerhouse <ul style="list-style-type: none"> Stripping and grubbing of the powerhouse footprint
Saturday	May 10	MS	Sun and Cloud	Construction Camp <ul style="list-style-type: none"> Site grading and final capping material installation Boulder Intake Access Road <ul style="list-style-type: none"> Access road and roadside ditch repair Upper Lillooet Powerhouse <ul style="list-style-type: none"> Stripping and grubbing of the powerhouse footprint Spoil area re-contouring

IEM Team Personnel: MS – Mandala Smulders; TH – Tom Hicks

2.0 Administrative Summary

Key communications and meetings the IEM team had with the licensees, contractors and/or environmental authorities:

Date	Communication Type	Participants	Issues Discussed	ITM ID No.
May 4 May 5	<i>Email and Letter</i>	Lil'wat Nation, Arrowstone, SES, CRT-ebc, Innergex	<ul style="list-style-type: none"> An exemption to the presence of an archaeological monitor was granted by Lil'wat Nation and Arrowstone Consulting for weekend work on Sunday May 4th as no archaeological monitor was available. It is a recommendation to have an archaeological monitor as per the ASMP, but is not a legal requirement under the <i>Heritage Conservation Act</i>. Condition of the exemption was that work would not occur within the fenced-off 10 m buffer zone around archaeological site EdRu-3, mitigation measures outlined in the ASMP would be implemented and that future monitoring works would require an archaeological monitor be on site. 	N/A
May 6	<i>Site inspection</i>	Innergex, Hedberg, SES, CRT-ebc	<ul style="list-style-type: none"> Reviewed decked merchantable timber and woody debris piles in order to assess quantity of waste wood present onsite. 	N/A
May 8	<i>Pre-work Meeting</i>	CRT- ebc, SES, Innergex	<ul style="list-style-type: none"> Reviewed the BDRHEF intake access road upgrade work plan, highlighting road drainage improvements & permanent culvert locations. 	N/A
May 9	<i>Pre-work Meeting</i>	CRT- ebc, SES, Innergex, Ecofish	<ul style="list-style-type: none"> Reviewed the BDRHEF powerhouse and blasting magazine area clearing, stripping and grubbing work plan, highlighting results of AMBNS and merchantable timber and woody debris management. 	N/A

3.0 Current Work Restrictions and Timing Windows

The table presented below outlines work restrictions applicable during the reporting period for each active Project component location:

Component	Location	Wildlife/Archeology Concern	Construction/Timing Restrictions & Mitigations
<i>All ULRHEF and BDRHEF areas</i>	<i>All ULRHEF and BDRHEF areas</i>	<i>Nesting Birds</i>	<i>Vegetation clearing must take place outside of the breeding bird season (May 1 – July 31) to prevent disturbance of bird nests. If not feasible, nest surveys must be conducted by qualified professionals following the Active Migratory Bird Nest Surveys prior to clearing and protective buffers surrounding discovered nests will be maintained until young are fledged and approval has been obtained from the IEM or designate.</i>
<i>ULRHEF powerhouse</i>	<i>Within 50m of identified archeologically significant area</i>	<i>Archaeologically significant site EdRu-3</i>	<i>The ASMP recommends that an archaeological technician from the Lil'wat Nation be present to monitor initial ground-disturbance activities within 50 m of the EdRu-3 site boundaries.</i>
	<i>Within 30m of the Upper Lillooet River</i>	<i>Riparian area</i>	<i>IEM presence is required when working within 30m of the Upper Lillooet River as outlined in the ULRHEF Powerhouse Stripping and Grubbing work plan.</i>
<i>Lillooet River FSR; ULRHEF intake access; FSR realignment at Truckwash Creek</i>	<i>Access roads above ULRHEF Powerhouse to the ULRHEF intake; including FSR realignment at Truckwash Creek</i>	<i>Mountain Goat UWR</i>	<p><i>Construction noise must be minimized within 500 m of legally established UWR during winter (November 1 – April 30) to the satisfaction of the IEM or designate.</i></p> <p><i>All drilling and construction associated activities will cease for a minimum of two consecutive week periods at the Upper Lillooet River HEF downstream portal near Truckwash Creek and at the intake after snow levels have begun to recede in the spring. Snow depths measured on May 3, 2014 resulted in the implementation of the 2 week spring shutdown as detailed in the Mountain Goat Management Plan. Additional information is provided in Section 6.0.</i></p> <p><i>If a goat is observed within 500 m of construction operations, construction must cease for at least 48 hours. The IEM must record and submit all goat observations to FLNR within 48 hours.</i></p>

4.0 Boulder Creek Hydroelectric Facility

4.1 Monitoring Results

4.1.1 Active Construction Areas

Construction Camp

- Site grading and sub-grade construction continued and was completed this week. Final road ditching and site capping began and will continue next week. No environmental concerns were noted.

BDRHEF Intake Access Road (i.e. Athel Main Line Road)

- Access road repair and drainage ditch installation began following the May 8th kick-off meeting. The road upgrade works occurred concurrently with the removal of trees that were hand felled during the previous monitoring period.

BDRHEF Powerhouse and Blasting Magazine Area

- Stripping and grubbing of the previously cleared powerhouse and spoil area was completed this week. Additional authorized areas were cleared (OLTC L49816; Amendment 2) following the completion of AMBNS (performed by Ecofish), and a pre-work kick-off meeting conducted to review the work plan with the CRT-EBC's, field engineer and environmental lead prior to beginning clearing and grubbing (May 9th, 2014). Merchantable timber and woody debris was removed and stripping and grubbing of newly cleared areas began on May 10th, 2014.

Environmental Summary:

- The IEM was onsite to monitor all drainage and road repair work along the BDRHEF intake access road between 0-3.8km and verified that bio-degradable hydraulic oil was used in excavators involved in drainage ditch construction. No spills or leaks were observed. No water quality concerns were noted.

Photos:



Photo 1. Nearing completion of site grading and sub-grade preparation at the Construction Camp work area. (May 6, 2014).



Photo 2. Upgraded section of BDRHEF intake access road following ditch installation and tree removal. (May 8, 2014).

Water Quality Results

Date	Time	Sample Location Description	pH	Turbidity (NTU)	Temperature (°C)
No WQ measurements were recorded during this reporting period. Stripping, Grubbing, Grading and hand falling activities had no visual effect on WQ.					

5.0 Upper Lillooet River Hydroelectric Facility

5.1 Monitoring Results

5.1.1 Active Construction Areas

ULRHEF Powerhouse

- Clearing and grubbing of the powerhouse footprint and haul road upgrades continued this week. All organic soils were hauled and stockpiled at the base of the fill slope at the east heading of the realignment of the Lillooet River FSR, according to methods outlined in the approved work plan.

Environmental Summary:

- An archaeological monitor from the Lil'wat Nation was onsite to oversee initial ground disturbance within 50m of the archaeologically significant site adjacent to the powerhouse location (EdRu-3) this week. An exemption to the presence of an archaeological technician was granted for weekend work on Sunday May 4th as outlined in the letter issued by the Lil'wat Nation and Arrowstone Archaeological Research and Consulting Ltd. on May 5th, 2013.

- The IEM was present to oversee all grubbing activities within 30m of the Lillooet River and verified that bio-degradable hydraulic oil was used in excavators involved in works within the riparian area.

Photos:



Photo 3. Placing stripping and grubbing material from the ULRHEF powerhouse area work area at the base of the approved spoil area. (May 10, 2014).



Photo 4. Stripping and grubbing activity at the ULRHEF powerhouse location. (May 9, 2014).

Water Quality Results

Date	Time	Sample Location Description	pH	Turbidity (NTU)	Temperature (°C)
No WQ measurements were recorded during this reporting period. Stripping, Grubbing, Grading had no visual effect on WQ.					

5.2 Recommendations

Spring has arrived at Upper Lillooet Hydro Project as evidenced by an increase in wildlife sightings and wildlife activity. At this time of year an increased level of vigilance while driving and adherence to the speed limits is critical to preventing wildlife collisions. All wildlife sightings, encounters, and collisions should continue to be reported to the IEM in a timely fashion.

5.3 Upcoming Works

All construction activities are now suspended for a minimum two week period within the 200m buffer surrounding the Mountain Goat migration corridor at Truckwash creek and at the ULRHEF intake. Additional clearing at the BDRHEF intake access road (beyond 3.8km) will be completed as authorized in the OLTC L49816; Amendment 2 dated May 6, 2014 following completion of AMBNS. Stripping and grubbing of the ULRHEF powerhouse is scheduled to continue next week. Transmission line construction activities are scheduled to begin next week. The transmission line works will be focused on road construction and clearing within the Segments 1-5.

6.0 Wildlife Sightings

As per the CEMP, a wildlife sightings record has been implemented and will be updated regularly by Project Personnel. It is mandatory for all personnel to report wildlife sightings including, but not limited to bears, cougars, mountain goats and deer. Wildlife sighting will be reported and recorded by the contractor(s) and will be submitted to the IEM on a weekly basis. Wildlife Observation forms will be summarized on a monthly basis and appended to the first WEMR of the following month. Observation or detection of the following species will trigger notification to identified parties according to the following table.

Species Observed or Detected	Notification Period	Agencies to be Notified
Northern Rubber Boa	Immediately	IEM, Owner
Grizzly Bear	24hrs	IEM, Safety Officer, Conservation Officer, Owner
Wolverine Den	24hrs	IEM, MFLNRO, Owner
Spotted Owls	24hrs	IEM, MOE, Owner
Mountain Goats	48hrs	IEM, MFLNRO, Owner

Two Grizzly Bear sightings were reported during this monitoring period (May 9th and 10th). All parties identified in the above table were notified within 24hr of the sighting log submission. The sighting logs are appended to this report.

7.0 Mountain Goat Monitoring Program

No construction activities occurred within or beyond the 200m buffer to the Mountain Goat Migration corridor at Truckwash Creek; therefore no noise monitoring or Mountain Goat monitoring was required during this reporting period.

Snow depths measured on May 3rd, 2014 resulted in the implementation of the 2 week spring shutdown as detailed in the Mountain Goat Management Plan. All drilling and construction associated activities will now cease for a minimum of two consecutive week periods at the Upper Lillooet River HEF downstream portal near Truckwash Creek and at the ULRHEF intake. The IEM team will conduct Mountain Goat monitoring beginning next week at the identified observations stations during the minimum 2-week shutdown prior to May 18th, 2014, to detect the presence and observe behaviours of Mountain Goats within UL-11 (keyhole falls habitat) and UL-19. The monitoring results will be used to adaptively manage the spring shutdown period based on behaviours and conditions observed.

8.0 Environmental Issues Tracking Matrix (ITM)

8.1 Hydroelectric Facilities (ULRHEF & BDRHEF)

ITM Tracking Legend:

Work Item Open
Work Item Complete
Issue Closed

Issue Tracking		Environmental Issue		Mitigation Measures			
ID No.	Status	Location	Issue Description	Action Taken/Recommended	Date of Identification	Targeted/Completion Date	Date Completed
<i>No outstanding environmental issues.</i>							

8.2 Transmission Line

ITM Tracking Legend:

Work Item Open
Work Item Complete
Issue Closed

Issue Tracking		Environmental Issue		Mitigation Measures			
ID No.	Status	Location	Issue Description	Action Taken/Recommended	Date of Identification	Targeted Completion Date	Date Completed
<i>No outstanding environmental issues.</i>							



May 5, 2014

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Ian Mckeachie
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We are writing this letter with respect to construction work for the Upper Lillooet Hydro Project and the archaeological monitoring recommendations set out in the *Archaeological Sites Management Plan for the Upper Lillooet Hydro Project* prepared by the Lil'wat Nation and Arrowstone Archaeological Research Consulting Ltd.

On May 1 and 2, 2014, construction for the Upper Lillooet Hydro Electric Facility commenced within 50 meters of archaeological site EdRu-3. In compliance with the recommendation in the *Archaeological Sites Management Plan for the Upper Lillooet Hydro Project*, a Lil'wat Nation archaeological technician was present for archaeological monitoring for both days. At the end of the day on May 2, the Lil'wat Nation archaeological monitor was informed by CRT-EBC that no monitoring work would be required for Saturday, May 3.

On Saturday May 3, at 6:20 pm, Ian Mckeachie from CRT-EBC phoned Harriet VanWart, Consultation Manager for the Lil'wat Nation. Ian stated that construction within the 50 meter buffer zone of EbRu-3 was not able to occur on Saturday as planned

because no archaeological monitor was present. Ian requested that an archaeological monitor be on site for 7:00 am on Sunday, May 4, so that construction within the 50 meter buffer zone may occur. Given the late notice, and that no previous notification was given that archaeological monitoring may be required over the weekend, Harriet was not able to confirm that a monitor would be available for Sunday morning as requested.

An exemption from archaeological monitoring for Sunday May 4, 2014, was approved by the Lil'wat Nation and communicated to Ian Mckeachie via email from Harriet VanWart. The exemption was based on the following reasons:

- 1) that no archaeological monitor was available for Sunday May 4, 2014;
- 2) that delaying construction work within the 50 meter zone of EdRu-3 for another day would be problematic;
- 3) that work would not occur within the fenced-off 10 meter buffer zone around archaeological site EdRu-3; and
- 4) that the 50 meter buffer zone for archaeological monitoring is a recommendation by the Lil'wat Nation and Arrowstone Archaeological Research and Consulting Ltd., but is not a legal requirement under the *Heritage Conservation Act*.


For further clarification, the exemption from archaeological monitoring for Sunday, May 4, was a one-time approval. Lil'wat Nation and Arrowstone Archaeological Research and Consulting Ltd. maintain the recommendations set out in the *Archaeological Site Management Plan for the Upper Lillooet Hydro Project*. Any future exemptions must be confirmed in writing by the Lil'wat Nation and provided to Julia Mancinelli, Innergex Renewable Energy Inc., Tom Hicks, Sartori Environmental Services, and Ian Mckeachie, CRT-ECB.

To avoid the re-occurrence of the incident over the weekend we ask that the Lil'wat Nation Land and Resources Department be given at least 48 hours' notice of construction work that will require archaeological monitoring, and that notice occur during Monday to Friday working hours.

Sincerely,




Harriet VanWart, Consultation Manager
Department of Land Resources and Public
Infrastructure
Lil'wat Nation




Dave Hall, MA, RPCA
Arrowstone Archaeological Research and
Consulting Ltd.

Appendix B. Bear sighting log.

BEAR OBSERVATION CARD
Return to: Local BC Parks Office

BC 9587 

14/05/09  16 311 Upper Lillooet River (Squamish-Lillooet Regional District)
YY/MM/DD Time (24 hrs) District Name of Protected Area

Observer Name, Address and Phone Number: Tommy Lafond-Chouinard, (604) 894-5002

Location in protected area (i.e., name of campground, campsite, dayuse area, trail name, lake, stream, nearest geographic feature, etc.): @ 4km Lillooet River FSR NA NA

110 469061 561100 Elevation (metres or feet) Observer Distance (metres or feet)

U.T.M. Zone Easting or Longitude Northing or Latitude

Weather: Rain, Overcast, Cloudy, Clear Map Datum: NAD27 NAD83 GPS

Bear Species: Grizzly bear Black bear Unknown ID Confidence: High Medium Low

Colour code: Reddish-brown, Black, Grey, Dark brown, Light brown, Blond, Other: _____

Distinguishing features (tag, collar, scars): NA

Abundance: Common, Frequent, Occasional, Rare

Observation Type: sighting, track, scat, digging, hair, foraging sign, rub tree, bed, den

Number Observed:
Adult male Adult fem. Young of yr. Sub-Adult Unclassified

Was the bear aware of your presence? Yes No N/A

Food association: none, odour, unattended, garbage, vehicle, cache

Bear(s) activity: a) feeding b) hunting c) fishing d) scavenging e) drinking f) travelling g) bedded h) courtship/mating i) playing j) call k) fighting Other: _____

Reaction: a) indifferent b) flee c) curious d) food seeking e) illegally fed f) threatening g) charge h) rut i) fight j) play k) travel Other: _____

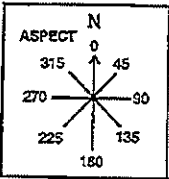
Estimated level of habituation: a) sighting or sign b) normal behaviour - avoids people c) reacts defensively after surprise or provocation d) tolerates but ignores people e) shows repeated interest in people f) habituated to people and their food g) displays aggressive behaviour, threat to humans h) unknown

Repeat offender: Yes No

If yes, provide background information (i.e., complaint/occurrence report) _____

Photographs: Yes No

Aspect Diagram Notes: As soon as the bear saw Tommy's truck, he left the area.




Slope _____%

N.B. Ensure complaint / occurrence report and BC problem wildlife form (if required) are completed, if there was property damage or if further action required in dealing with bear sighting, i.e., destroy, relocation or aversive conditioning.

FM 602

Appendix B. Bear sighting log.

BEAR OBSERVATION CARD
Return to: Local BC Parks Office

BC 9587 

 Upper Lillooet River (Squamish-Lillooet Regional District)

YY/MM/DD Time (24 hrs) District Name of Protected Area

Observer Name, Address and Phone Number: Veronica Woodruff, (604) 966-8229

Location in protected area (i.e., name of campground, campsite, dayuse area, trail name, lake, stream, nearest geographic feature, etc.) near Truckwash creek NA 10m

 Elevation (metres or feet) Observer Distance (metres or feet)

U.T.M. Zone Easting or Longitude Northing or Latitude

Weather: Rain, Overcast, Cloudy, Clear
 Map Datum: NAD27 NAD83 GPS

Bear Species: Grizzly bear, Black bear, Unknown
 ID Confidence: High, Medium, Low

Colour code: Reddish-brown, Black, Grey, Dark brown, Light brown, Blond, Other:

Distinguishing features (tag, collar, scars):

Abundance: Common, Frequent, Occasional, Rare

Observation Type: sighting, track, scat, digging, hair, foraging sign, rub tree, bed, den

Number Observed:

Adult male
 Adult fem.
 Young of yr.
 Sub-Adult
 Unclassified
 11
 Was the bear aware of your presence? Yes No N/A

Food association: none, odour, unattended garbage, vehicle, cache

Bear(s) activity: a) feeding b) hunting c) fishing d) scavenging e) drinking travelling g) bedded h) courtship/mating i) playing j) call k) fighting Other:

Reaction: a) indifferent in flee c) curious d) food seeking e) illegally fed f) threatening g) charge h) rut i) fight j) play k) travel Other:

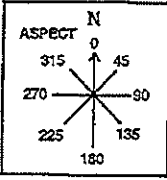
Estimated level of habituation: sighting or sign b) normal behaviour - avoids people c) reacts defensively after surprise or provocation d) tolerates but ignores people e) shows repeated interest in people f) habituated to people and their food g) displays aggressive behaviour, threat to humans h) unknown

Repeat offender: Yes No

If yes, provide background information (i.e., complaint/occurrence report)

Photographs: Yes No

Aspect Diagram Notes: The observer was inside her pick-up when she saw the bear. It fled as soon as he saw the pick-up.



Slope _____ %

N.B. Ensure complaint / occurrence report and BC problem wildlife form (if required) are completed, if there was property damage or if further action required in dealing with bear sighting, i.e., destroy, relocation or aversive conditioning.