



**November 23<sup>rd</sup>, 2015**

**AH-Letter-PM-075**

Muskrat Falls Corporation  
Lower Churchill Project Muskrat Falls Corporation  
350 Torbay Road Plaza, Suite No. 2  
St. John's, NL, A1A 4E1

**Attention:** Scott O'Brien – Project Manager, Muskrat Falls Generation

**Reference:** CH0032: Supply and Install Powerhouse and Spillway Hydro-Mechanical Equipment

**Subject:** 1) Spillway Upstream – Notification of changed site conditions (from November 16<sup>th</sup>, 2015 to November 22<sup>nd</sup>, 2015)  
2) Contactor's Letter AH-Letter-PM-058 - Interface Milestones I1A & I1B (partial) – Contractor's status assessment as of November 1<sup>st</sup>, 2015

Dear Mr. O'Brien,

Contractor's letter AH-Letter-PM-058 notified Company that the Interface Milestones I1A and I1B (partial) had not been fully achieved as of November 1<sup>st</sup>, 2015. This letter is an update to the site conditions on the spillway upstream for the period from November 16<sup>th</sup>, 2015 to November 22<sup>nd</sup>, 2015;

Amongst other events and differing site conditions, the following non-exhaustive list of incomplete Company's other Contractor's work on the spillway upstream is impeding Contractor's ability to perform the Work in accordance with the Contractor 's baseline installation plan;

As of November 22<sup>nd</sup>, 2015 (incomplete Company's other Contractor's work):

- 1) Upstream bridge remains incomplete, including TRCM rail installation, concreting and guard rail placement. Bridge has not received all of its concrete formwork.
- 2) North rock wall base of laydown is covered (approximately 20 feet wide on the whole length) with equipment and material from civil contractor.
- 3) A tower crane is present and active upstream of bay 4 with a large generator set at its base.
- 4) Concrete anchor cones are still present in some bays.
- 5) Block out anchors bolts are not reinserted fully and inspection is not completed. Some spherical anchor nuts in gate blockouts are either stripped completely or



have damaged threads. They are not free to move 5 degrees as intended in all directions and/ or not clear of debris.

6) Spillway Electrical Building platform and supports has yet to be commenced.

Observations of Changed Site Conditions on November 16<sup>th</sup>, 2015:

- 1- 10 of Company's Other Contractor workers on upstream bridge and north pier;
- 2- Formwork by Company's Other Contractor of upstream bridge deck interferes with temporary stoplogs embedded parts erection;
- 3- Scaffolding underneath bridge interferes with permanent stoplogs embedded parts erection in bay #1 and bay #2;
- 4- Bay #2, 2 man lifts, 2 workers and 4 more workers on bridge scaffold, red taped by Company's Other Contractor;
- 5- Bay #3, 1 man lift, 3 workers and a foreman and 2 more workers on bridge scaffold, red taped by Company's Other Contractor;
- 6- Bay #4, 2 man lifts and 3 workers Company's Other Contractor;
- 7- Bay #5, 1 man lifts, 4 workers and a grout shack. Red taped by Company's Other Contractor;
- 8- North wall and upstream of bay 5 area, rebar flatbed, crane lifting material, one pickup truck and 5 workers from Company's Other Contractor;

Observations of Changed Site Conditions on November 17<sup>th</sup>, 2015:

- 1- 10 workers from Company's Other Contractor on upstream bridge and north pier;
- 2- Formwork on upstream bridge deck interferes with temporary stoplogs embedded parts erection;
- 3- Scaffolding underneath bridge interferes with permanent stoplogs embedded parts erection in bay #1 and bay #2;
- 4- Bay #2, 2 man lifts, 4 workers and 2 more workers on bridge scaffold, red taped by Company's Other Contractor;
- 5- Bay #3, 2 man lifts, 10 workers and 2 more workers on bridge scaffold, red taped by Company's Other Contractor;
- 6- Bay #5, 1 man lifts, 4 workers and a grout shack. Red taped by Company's Other Contractor ;
- 7- North wall and upstream of bay 5 area, rebar flatbed, crane lifting material and 2 workers from Company's Other Contractor;

Observations of Changed Site Conditions on November 18<sup>th</sup>, 2015

- 1- 20 workers from Company's Other Contractor on upstream bridge and north pier;
- 2- Formwork of upstream bridge deck interferes with temporary stoplogs embedded parts erection;
- 3- Scaffolding underneath bridge interferes with permanent stoplogs embedded parts erection in bay #1, bay #2, bay #3 and bay #5 ;
- 4- Concrete pump truck set-up in front of bay #1;
- 5- Bay #2, 2 man lifts, 2 workers and 4 more workers on bridge scaffold, red taped by Company's





Other Contractor ;

- 6- Bay #3, 2 man lifts, 4 workers and 2 more workers on bridge scaffold, red taped by Company's Other Contractor;
- 7- Bay #5, 2 man lifts, 4 workers, 2 workers on scaffold platforms and a grout shack. Red taped by Company's Other Contractor;

Observations of Changed Site Conditions on November 19<sup>th</sup>, 2015

- 1- 20 workers from Company's Other Contractor on upstream bridge and north pier;
- 2- Formwork by Company's Other Contractor of upstream bridge deck interferes with temporary stoplogs embedded parts erection;
- 3- Scaffolding underneath bridge interferes with permanent stoplogs embedded parts erection in bay #1, bay #2, bay #3 and bay #5 ;
- 4- Bay #3, 2 man lifts, 4 workers and 2 more workers on bridge scaffold, red taped by Company's Other Contractor;
- 5- Bay #4, 2 man lifts and 2 workers, red taped by Company's Other Contractor;
- 6- Bay #5, 1 man lifts, 2 workers, 2 workers on scaffold platforms and a grout shack. Red taped by Company's Other Contractor;
- 7- North wall and upstream of bay 5 area, rebar flatbed, roll-off truck, crane lifting material and 4 workers from Company's Other Contractor;

Observations of Changed Site Conditions on November 20<sup>th</sup>, 2015

- 1- 20 workers from Company's Other Contractor on upstream bridge and north pier preparing for night shift pour;
- 2- Formwork by Company's Other Contractor of upstream bridge deck interferes with temporary stoplogs embedded parts erection;
- 3- Scaffolding underneath bridge interferes with permanent stoplogs embedded parts erection in bay #1, bay #3 and bay #5 ;
- 4- Bay #3, 1 man lifts, 2 workers and red taped by Company's Other Contractor;
- 5- Bay #4, 3 man lifts and 10 workers and red taped by Company's Other Contractor;
- 6- Bay #5, 2 man lifts, 4 workers and a grout shack. Red taped by Company's Other Contractor;

Observations of Changed Site Conditions on November 21<sup>st</sup>, 2015

- 1- 20 workers from Company's Other Contractor on upstream bridge and north pier preparing for night shift pour;
- 2- Formwork by on upstream bridge deck interferes with temporary stoplogs embedded parts erection;
- 3- Scaffolding underneath bridge interferes with permanent stoplogs embedded parts erection in bay #1, bay #3 and bay #5 ;
- 4- Bay #3, 1 man lifts and red taped by Company's Other Contractor;
- 5- Bay #4, 2 man lifts and 3 workers and red taped by Company's Other Contractor;



- 6- Bay #5, 3 man lifts, 6 workers and a grout shack. Red taped by Company's Other Contractor;
- 7- Upstream of bay #5, 2 trailers of rebar, 3 pick-up truck, formwork panels and 4 workers from Company's Other Contractor.

Observations of Changed Site Conditions on November 22<sup>nd</sup>, 2015

- 1- 20 workers Company's Other Contractor on upstream bridge and north pier preparing for night shift pour;
- 2- Formwork on upstream bridge deck interferes with temporary stoplogs embedded parts erection;
- 3- Scaffolding underneath bridge interferes with permanent stoplogs embedded parts erection in bay #1, bay #3 and bay #5 ;
- 4- Bay #1, 1 man lifts, 3 workers and red taped by Company's Other Contractor;
- 5- Bay #4, 1 man lifts and 3 workers and red taped by Company's Other Contractor;
- 6- Bay #5, grout shack and red taped by Company's Other Contractor;
- 7- Upstream of bay #5, 1 trailers of rebar, 1 pick-up truck, formwork panels and 2 workers from Company's Other Contractor.

As stated in or letter AH-Letter-PM-058, Contractor considers the site conditions on the spillway upstream described in this notification to be an on-going occurrence that constitutes a Change, and will submit a Change Request with the quantification of the impacts of this Change in accordance with Article 26.8(c). The notification of such Change is an obligation of the Contractor per Article 26.8(a) of the Agreement. In the interim, Contractor is cooperating fully with Company and Company's other Contractors to mitigate the cost and schedule impacts of this Change.

Yours Truly,

**Bill Mavromatis**  
**Project Manager**  
**Andritz Hydro Canada Inc.**

**CC:** Frank Gillespie, LCP Deputy Company Representative/Area Manager  
 Bruce Drover, LCP Package Leader - Hydro Mechanical Equipment  
 Line Tremblay, LCP Senior Contract Administrator  
 Mathieu Bertrand - Installation Coordinator  
 Nicole Hu – AH Commercial Manager  
 Jean-Francois Harpin – AH Large Hydro Manager Operations  
 Daniel Bernier – AH Muskrat Falls Site Manager