

**From:** scottobrien@lowerchurchillproject.ca  
**Sent:** Monday, November 9, 2015 3:51 PM  
**To:** Grant Horwood; Robert Woolgar; Mark Turpin; John Mulcahy; Greg Snyder; Michael Harris  
**Subject:** CH0008 - Winter Shutdown

Gents

Can we lock this down please. My expectation is full shutdown in accordance with the execution plan and in keeping with best value approaches for non-critical scopes in a reimbursable environment.

Can we meet to review first thing tomorrow morning please. If there's an expectation from the contractor that they will undertake something different than the approved execution plan, we'll need to formalize it through letter correspondence and a change request which can then be assessed for overall project value.

Scott

**Scott O'Brien**

**Project Manager - Muskrat Falls Generation**

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From: Grant Horwood/NLHydro

To: Mark Turpin/NLHydro@NLHYDRO

Date: 11/09/2015 03:22 PM

Subject: CH0008 - Winter Shutdown

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Mark,

In absence of our meeting today to discuss North Spur winter shutdown, this is what we need to formalize;

1. What work will Gilbert will be doing on site this winter rather than a full shutdown as was stated in their execution plan. The Execution Plan states "*Winter 2015-2016 is planned to be a shutdown. No works shall be done during that winter. The Control Schedule would be reissued if a planning change would be necessary to continue the works during that winter shutdown.*"The schedule below submitted with the September Monthly report is not clear (refer to item 4).
2. If there is a reason for them being on site through the winter, Gilbert should update the execution plan or provide a separate plan for winter works 2015-2016? Are there any pay items for the work they will be performing over the winter? Their management labour is Lump Sum but if they have craft labour and they are performing work that is unit price, we will have to pay for work at lower production rates.
3. Will LCP be required to maintain medical and security for the North Spur over the winter? If so, there is no money in the budget so we will need to process a PCN?
4. Only works in the Baseline schedule for Winter 2015-2016 is submission of work plans however the latest schedule submitted with the September report appears that they may be doing some work over the winter on Upstream Till and Granular, NW CB Cutt-off Wall and Kettle Lake Overburden excavation? It's my understanding from talking with Greg that this is not the case, can you confirm?
5. If they are no performing any unit price work, I don't see how we will pay them anything other than Lump Sum management labour? Is this correct?

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Thanks,

**Grant Horwood, P.Eng.**

**Dams Coordinator**

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**You owe it to yourself, and your family, to make it home safely every day. What have you done today so that nobody gets hurt?**

North Spur Stabilization Works: DD 2015-09-27 Sept Update				Layout	
Activity Name	Start	Finish	BL Project Start	BL Project Finish	b
<b>Total</b>	<b>2014-12-23 A</b>	<b>2016-11-03</b>	<b>2014-12-23</b>	<b>2016-12-15</b>	
<b>LNTP &amp; Initial Mobilization</b>	<b>2014-12-23 A</b>	<b>2015-10-15</b>	<b>2014-12-23</b>	<b>2015-05-28</b>	
Contract Milestone M1 - Limited Notice to Proceed	2014-12-23 A	2014-12-23 A	2014-12-23	2014-12-23	
Establish Spoil, Laydown, Temp. Roads, Offices and Facilities	2015-03-23 A	2015-10-15	2015-03-16	2015-04-22	
Temporary Roads	2015-03-23 A	2015-09-05 A	2015-03-18	2015-05-28	
Open Borrow Pits and Establish Initial Stockpiles	2015-05-17 A	2015-07-17 A	2015-05-11	2015-05-19	
<b>2860 - Site Clearing</b>	<b>2015-03-19 A</b>	<b>2015-05-20 A</b>	<b>2015-03-21</b>	<b>2015-05-11</b>	
Site Clearing	2015-03-19 A	2015-05-20 A	2015-03-21	2015-05-11	
<b>2810 - Upstream Embankments</b>	<b>2015-04-16 A</b>	<b>2016-09-01</b>	<b>2015-03-28</b>	<b>2016-07-18</b>	
USOE - Upstream Excavation of 2F-2G Material	2015-04-16 A	2015-10-16	2015-03-28	2015-06-24	
Upstream Overburden Excavation	2015-04-17 A	2015-11-21	2015-04-04	2015-11-03	
Upstream Foundation Treatment	2015-07-24 A	2015-11-03	2015-06-08	2015-07-17	
Upstream Till Intallation	2015-09-11 A	2016-08-30	2015-07-14	2016-05-04	
Upstream Granular Material Installation	2015-06-02 A	2016-09-01	2015-06-03	2016-07-18	
Upstream CB Cut-Off Wall	2015-07-19 A	2015-10-11	2015-07-02	2015-08-23	
Upstream 2F Material (Top of CB NW Wall)	2015-12-07	2015-12-07	2015-08-22	2015-08-22	
Upstream 2G Material (North of US CB Wall)	2015-07-17 A	2016-05-11	2015-07-27	2015-10-17	
<b>2815 - Upstream Cement-Bentonite Cut-Off Wall</b>	<b>2015-08-02 A</b>	<b>2015-10-07</b>	<b>2015-07-02</b>	<b>2015-08-21</b>	
Upstream CB Cut-Off Wall	2015-08-02 A	2015-10-07	2015-07-02	2015-08-21	
<b>2845 - Northwest Cement-Bentonite Cut-Off Wall</b>	<b>2015-10-08</b>	<b>2016-06-15</b>	<b>2015-08-23</b>	<b>2016-05-01</b>	
North West CB Cut-Off Wall	2015-10-08	2016-06-15	2015-08-23	2016-05-01	
<b>2820 - Downstream Embankments</b>	<b>2015-07-17 A</b>	<b>2016-07-29</b>	<b>2015-06-07</b>	<b>2016-11-01</b>	
USOE - Upstream Excavation of 2F-2G Material	2015-07-17 A	2015-11-30	2015-06-07	2015-06-12	
Downsteam Overburden Excavation	2015-09-26 A	2016-06-29	2016-05-04	2016-07-12	
DSOE - Downstream Excavation of 2F-2G Material	2015-08-01 A	2015-11-30	2015-09-01	2015-10-17	
Downstream Granular Material Installation	2015-08-16 A	2016-07-29	2015-09-26	2016-10-18	
Finger Drains Overburden Excavation	2015-09-02 A	2016-06-14	2016-05-04	2016-10-22	
Finger Drains Granular Material Installation	2015-09-05 A	2016-06-24	2016-05-04	2016-11-01	
<b>2850 - Kettle Lakes Outflow Reconstruction</b>	<b>2015-12-03</b>	<b>2016-05-27</b>	<b>2016-06-14</b>	<b>2016-08-10</b>	
Kettle Lakes Discharge Overburden Excavation	2015-12-03	2016-05-27	2016-06-14	2016-08-01	
Kettle Lakes Discharge Granular Material Installation	2016-05-01	2016-05-12	2016-07-01	2016-08-10	
<b>2880 - Instrumentation - Geotechnical</b>	<b>2016-08-04</b>	<b>2016-10-04</b>	<b>2016-06-18</b>	<b>2016-08-18</b>	
Instrumentation Drilling	2016-08-04	2016-09-02	2016-06-18	2016-07-17	
Instrumentation Shelter	2016-09-19	2016-10-04	2016-08-03	2016-08-18	
Instrumentation Refurbishment	2016-09-11	2016-09-18	2016-07-26	2016-08-02	
<b>1110 - Permanent Roads</b>	<b>2016-06-18</b>	<b>2016-07-18</b>	<b>2016-08-25</b>	<b>2016-09-09</b>	
Permanent Roads	2016-06-18	2016-07-18	2016-08-25	2016-09-09	
<b>2870 - Hydroseeding - Embankments</b>	<b>2016-07-04</b>	<b>2016-07-15</b>	<b>2016-07-04</b>	<b>2016-08-14</b>	
Site Hydroseeding	2016-07-04	2016-07-15	2016-07-04	2016-08-14	
<b>Site Restoration/Demobilization &amp; Contract Milestones</b>	<b>2016-09-02</b>	<b>2016-11-03</b>	<b>2016-09-10</b>	<b>2016-12-15</b>	
Site Rehabilitation	2016-09-02	2016-11-03	2016-09-28	2016-12-15	
Demobilisation	2016-10-05	2016-11-03	2016-09-10	2016-11-08	

Summary
 Remaining Work
 Contract Baseline