

From: scottobrien@lowerchurchillproject.ca
To: [Ron Power](#)
Cc: [Ed Bush](#)
Subject: Re: Astaldi ICS Schedule
Date: Wednesday, October 8, 2014 7:49:56 AM

We've had similar discussions on this one down here. Astaldi is waiting for this type of action.

Scott O'Brien

Project Manager - Muskrat Falls Generation

PROJECT DELIVERY TEAM

Lower Churchill Project

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e. ScottO'Brien@lowerchurchillproject.ca

w. muskratfalls.nalcorenergy.com

On Oct 8, 2014, at 7:35 AM, Ron Power
<RonPower@lowerchurchillproject.ca> wrote:

fyi

Sent from my iPad

Begin forwarded message:

From: "Paul Harrington" <PHarrington@lowerchurchillproject.ca>
Date: October 8, 2014 at 11:46:59 AM GMT+2
To: "Ron Power" <RonPower@lowerchurchillproject.ca>
Cc: "Lance Clarke" <LanceClarke@lowerchurchillproject.ca>
Subject: Re: Astaldi ICS Schedule

As discussed, I am not in favour of getting involved in the ICS decision making..I feel very strongly that even though it may appear to be not adding value however I feel that this must be Astaldis decision and not in any way driven or even suggested by Nalcor. It is also a credibility issue that Ed has mentioned many times as being a benefit to productivity and has classed

this as one of the cost drivers to arrive at \$6.99 but in a positive sense.

So if ASTALDI decide to reduce or remove the ICS then so be it but under no circumstances should it be connected with anything we said, suggested or inferred.

Paul

Sent from my iPad

On Oct 8, 2014, at 2:29 AM, "Ron Power"
<RonPower@lowerchurchillproject.ca> wrote:

fyi - this note really makes me question the whole ICS business.

Sent from my iPad

Begin forwarded message:

From: "Ed Bush" <EdBush@lowerchurchillproject.ca>
Date: October 7, 2014 at 10:42:10 PM GMT+2
To: "Ron Power" <RonPower@lowerchurchillproject.ca>
Cc: "Scott O'Brien" <ScottOBrien@lowerchurchillproject.ca>
Subject: Astaldi ICS Schedule

Ron;

I wanted to provide you with a couple of observations about the ICS schedule that you might want to consider for any discussion with Astaldi.

1) ICS SSB and Units 1&2: Contractor indicates that area over the SSB and Units 1&2 will be complete, with OH cranes and cladding by 27 Nov 2014. We have been erecting steel for these structures since early August. Schedule does not mention lighting, heating and ventilation, electrical distribution, concrete

distribution, or any other utilities (drainage, water and compressed air). No mention of the excavation of the fill placed in the bottom of the powerhouse for crane access! The current schedule is ambitious and incomplete. The Contractor's schedule contemplates demolition of the ICS over the SSB commencing 23 April 2015, Unit 1 on 9 July 2015 and Unit 2 on 27 August 2015. The duration of each removal sequence is 20-21 days. At this rate, based on the work in front of us, we will get only limited use from this structure over the coming winter months.

2) ICS Units 3&4 and NSB: Contractor indicates that the area over Unit 3 will commence on 22 Nov 2014 and will be closed in on 8 Feb 2015. Unit 4 and the NSB will commence on 5 Jan 2015 and be closed in by 20 Mar 2015 (just in time for spring). There is no mention of any activities associated with fitout and utilities for these areas in the schedule. There is no mention of excavation of the fill placed in the bottom of the powerhouse for crane access. The Contractor's schedule contemplated demolition of the ICS over Unit 3 on 15 Oct 2015 and Unit 4 plus the NSB on 3 Dec 2015. Both demolition sequences are scheduled to take 21 days. Based on the foregoing, and on the assumption that we will achieve our concrete placing objectives, it kind of makes you wonder why we are even contemplating proceeding with this work! Surely Astaldi would be thinking about this by now!

Good luck with your meetings!

Ed

Ed Bush, MBA, P.Eng., PMP

Project Controls Manager

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