LOWER CHURCHILL PROJECT - MUSKRAT FALLS



CH0007: CONSTRUCTION OF INTAKE AND POWER HOUSE, SPILLWAY AND TRANSITION DAMS

LTR-CH0007001-0446

Muskrat Falls Corporation 350 Torbay Road, Suite 2 St. John's, NL Canada 4th -March-2015

ACI / MFC - 0225

Attention: Mr. Scott O'Brien

Company Representative

Subject:

LCP Muskrat Falls Contract No. CH0007

Construction of Intake Powerhouse, Spillway and Transition Dams I.C.S. Temporary Structure Certificate & Resumption Of Work

Dear Sir,

Contractor writes to notify Company that the I.C.S. Temporary Structure has been inspected and certified as per DPHV design. Works were performed as per the National Building Code of Canada, and complying with all local safety measures.

Analysis and verification of overall stability and integrity of the ICS were conducted by the Designer DPHV, including documentation as per "unfinished" configuration. All DPHV stamped drawings will be submitted via Aconex.

It is the Contractor's intention to resume works on the Powerhouse Unit 1 & Unit 2 as soon as possible, and at the same time re-confirming Contractor's viability to continue with the work.

Yours sincerely,

Astaldi Canada Inc.

Mr. G. Orsatti

Project Manager

Lower Churchill Project - Muskrat Falls

Cc: Mr. R. Hopkins; Mr. Tony Allen; Mr. G. Bader; Mr. E. Bessano; Mr. G. Pani; Mr. Haroon Raza

Nalcor: Mr. A. Kelly; Mr. M. Melhem

GP/RJH - 27.02.2015

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March 3, 2015

To Whom It May Concern

Based on the attached Quality Control Report, this certifies that the Power House ICS Steel Structure was fabricated and erected by Proco Inc. as per DPHV design, specifications and drawings. In general the requirements of CAN/CSA-S16 latest edition were met. Additionally, all of our quality control testing activities with regard to the above structure fulfilled the specifications and design requirements according to the results of the quality inspection reports. This attestation applies only to the structure between Axes 0.1 to 13.

The outstanding items 4, 5, 6, 7, 10 & 18 as per attached deficiencies list were considered not critical to the structure's integrity and will be corrected to satisfy CAN/CSA –S16 requirement.

Attachments:

QC Report

Deficiencies list

Regards,

Giosue' Par

Technical Manager of Astaldi

Hasan Hasan, P. Eng

Senior Structural Engineer

The list of ICS Drawings from DPHV:

MFA-AT-SD-3300-ST-D99-0001-01, MFA-AT-SD-3300-ST-D99-0002-01, MFA-AT-SD-3300-ST-D99-0002-02, MFA-AT-SD-3300-ST-D99-0003-01, MFA-AT-SD-3300-ST-D99-0003-02, MFA-AT-SD-3300-ST-D99-0003-03, MFA-AT-SD-3300-ST-D99-0003-04, MFA-AT-SD-3300-ST-D99-0003-05, MFA-AT-SD-3300-ST-D99-0003-06, MFA-AT-SD-3300-ST-D99-0003-07, MFA-AT-SD-3300-ST-D99-0004-01, MFA-AT-SD-3300-ST-D99-0004-02, MFA-AT-SD-3300-ST-D99-0005-01, MFA-AT-SD-3300-ST-D99-0006-01, MFA-AT-SD-3300-ST-D99-0006-01, MFA-AT-SD-3300-ST-D99-0006-01, MFA-AT-SD-3300-ST-D99-0009-01, MFA-AT-SD-3300-ST-D99-0009-01, MFA-AT-SD-3300-ST-D99-0010-01, MFA-AT-SD-3300-ST-D99-0010-01, MFA-AT-SD-3300-ST-D99-0010-01, MFA-AT-SD-3300-ST-D99-0011-01, MFA-AT-SD-3300-ST-D99-0011-01,

CIMFP Exhibit P-03063





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WFA-AT-SD-3300-ST-D99-0025-01, MFA-AT-SD-3300-ST-D99-0025-02, MFA-AT-SD-3300-ST-D99-0025-03, MFA-AT-SD-3300-ST-D99-0025-04, MFA-AT-SD-3300-ST-D99-0026-01, MFA-AT-SD-3300-ST-D99-0028-01, MFA-AT-SD-3300-ST-D99-0028-01, MFA-AT-SD-3300-ST-D99-0032-01, MFA-AT-SD-3300-ST-D99-0033-01, MFA-AT-SD-3300-ST-D99-0035-01.

No. Location	Affects	Structural Deficiency	Status	QC Checked - OK	Notes
1 Column B1/1.1	Structure	Lower double H braces missing 1 bolt	Complete	Yes	
2 Column B1/1,1	Structure	Middle double H braces missing 1 bolt	Complete	Yes	
3 Column B1/1.1	Structure	Splice above midlle H brace for Column 1 is buckled and missing 8 bolts. No mech	¿ Complete	Yes	
4 Column B1/1.1	Structure	Upper double horizontal braces are not flush nut as per s16.	Outstanding	No	Scaffolding to establish access from crane girder tower on line B.
5 Column B1/1.1	Structure	Roof joist bottom chord is fastened to column using bolts placed in field-drilled	Outstanding	No	Hasan Hasan to provide disposition for correction. Scaffolding to be set up to access.
		holes. Design requires 3 bolts/angle in prefabricated holes. Currently there are 2			
		bolts per angle.			
6 Column B1/1.1		Lower Chord of Truss missing two bolts at column B1	Outstanding		Identified during Inspection Mar 1/15. Scaffolding to be set up to access.
7 Line 1/1.1		Upper x-bracingjunction missing 4 bolts.	Outstanding	No	Scaffolding to establish access from crane girder tower on line B.
8 Column C1/1.1		Flange at middle x-bracing missing 12 bolts.	Complete	Yes	
9 Column C1/1.1		Upper column splice missing bolt. Drift pin left in hole.	Complete	Yes	
10 Column C1/1.1	Structure	Roof joist bottom chord is fastened to column using bolts placed in field-drilled	Outstanding	No	Hasan Hasan to provide disposition for correction. Scaffiolding to be set up to access.
		holes. Design requires 3 bolts/angle in prefabricated holes. Currently there are 2			
		bolts per angle			
11 Column B6/7		Lower double H braces missing 1 bolt	Complete	Yes	
12 Column B6/7		Middle double H braces missing 2 bolts	Complete	Yes	
13 Column B6/7		Lower chord of roof joist not fastened to column.	Complete	Yes	
14 Line 6/7 Bracing		Upper x-bracing junction missing 22 bolts.	Complete	Yes	
15 Column C6/7		Flange at middle x-bracing missing 6 bolts.	Complete	Yes	
16 Column C6/7	The same of the sa	Upper double H braces missing 1 bolt	Complete	Yes	
18 SSB		Upper x-bracing junction missing 5 bolts. Brace from turss to roof joist not bolted on end attached to roof joist.	In Progress Outstanding	No	Access to be provided via SSB crane after setup
		Complete + verified	1	1	
		Complete - not verified		0	
		In progress		1	
		Outstanding	1	5	
		% Complete	0.61111111	1	
1 Column C1/1.1	Cranes	Upper Crane girder bolts loose.	In progress	No	
2 Line A6/7	Cranes	Crane girder transition beam hanging from crane girder by loose bolts. Bolting	Outstanding	No	To be removed
2.00 - 2012		plate missing from girder	C. T.	16	
3 Column B6/7	Cranes	Crane girder transition beam missing bolts - bolts loose	Complete	Yes	
4 Column C6/7 5 Column C6/7	Cranes	Crane girder bolts loose with nuts at end of threads.	Complete Outstanding	Yes	section was located yesterday, awaiting installation.
	Cranes	Crane rail section missing over girder transition beam.		Yes	
6 Column C6/7 7 Column B12/13	Cranes Cranes	Crane transistion beam too short. Shims required to torque bolts properly. Crane girder bolts loose.	Complete Outstanding		Mounting brackets adjusted. No shims required.
8 Column C12/13		Crane girder bolts not flush nut as per s16.	Outstanding		
9 Column D12	Cranes Cranes	Crane girder doits not flush not flush as per \$16.	Outstanding		
10 Column D12	Cranes	Crane girder tie bolts loose.	Outstanding		
11 Column D12	Cranes	Crane girder tie botts loose. Crane girder tie not torqued flush with column face.	Outstanding		
12 Column D12	Cranes	Crane rail bumper missing 1 bolt,	Outstanding		
12 COMMINDIZ	Clalles	Crane ran pumper missing 1 bold	Outstanding	NO	
		Complete + verified		3	
		Complete - not verified	mag.	0	
		In progress		1	
		Outstanding	-	8	
		% Complete	0,2	5	
		11 COMPAGE	-	(5)	



Professional Engineers and Geoscientists Newfoundland & Labrador

PERMIT TO PRACTICE FOR THE YEAR 2015

This is to certify that ASTALDI CANADA INC.

is authorized to practise Professional Engineering in the Province of Newfoundland and Labrador.



Chair, Board of Directors

Seef Entirly

Registrar

This Permit requires renewal at the beginning of each calendar year and is liable to cancellation in accordance with the provisions of the Act, Regulations, and By-lays of the Professional Engineers & Geoscientists Newfoundland & Labrador