

Fred James Chief Regulatory Officer Phone: 604-623-4046 Fax: 604-623-4407 bchydroregulatorygroup@bchydro.com

October 30, 2019

Mr. Patrick Wruck Commission Secretary and Manager Regulatory Support British Columbia Utilities Commission Suite 410, 900 Howe Street Vancouver, BC V6Z 2N3

Dear Mr. Wruck:

RE: Project No. 1598975 British Columbia Utilities Commission (BCUC or Commission) British Columbia Hydro and Power Authority (BC Hydro) Supply Chain Applications Project (SCA Project) CONFIDENTIAL Semi-Annual Progress Report No. 1 October 2018 to September 2019 (Report)

BC Hydro writes to provide its confidential Report in compliance with BCUC Order No G-78-19. The Report is consistent with other project-specific progress reports filed with the BCUC, and provides an update on the SCA Project's scope and activities, cost, benefits, risks, and schedule, as applicable, over the period from October 1, 2018 to September 30, 2019.

BC Hydro is providing the confidential Report to the Commission only. A public version of the Report is being filed under separate cover redacting commercially sensitive and contractor-specific information and is available at <u>www.bchydro.com</u>.

BC Hydro seeks this confidential treatment pursuant to section 42 of the *Administrative Tribunals Act* and Part 4 of the Commission's Rules of Practice and Procedure.



October 30, 2019 Mr. Patrick Wruck Commission Secretary and Manager Regulatory Support British Columbia Utilities Commission Supply Chain Applications Project (SCA Project) CONFIDENTIAL Semi-Annual Progress Report No. 1 October 2018 to September 2019 (Report)

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For further information, please contact Geoff Higgins at 604-623-4121 or by email at <u>bchydroregulatorygroup@bchydro.com</u>.

Yours sincerely,

Fred James Chief Regulatory Officer

cu/tl

Enclosure

Copy to: BCOAPO Attention: Leigha Worth Iworth@bcpiac.com **CEC** Attention: Christopher Weafer Cweafer@owenbird.com



BC Hydro Supply Chain Applications Project

Progress Report No. 1

October 1, 2018 to September 30, 2019

PUBLIC



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1 1 Background

British Columbia Hydro and Power Authority (BC Hydro) must procure materials and
services on a day to day basis in order to maintain safe and reliable electric service
to customers. Third party materials and service acquisitions are expected to be in
the order of \$2 billion annually for at least the next ten years. To meet BC Hydro's
current and future business needs, reduce risk, and provide benefits for supply chain
activities, BC Hydro is replacing its current supply chain IT platform with the Supply
Chain Applications Project (SCA Project or Project).

The new supply chain software and business processes to be put in place by the SCA Project are expected to provide the necessary supply chain tools for BC Hydro to more efficiently and effectively manage its third party materials and service acquisitions. The benefits of SCA Project will include improved efficiency, risk reduction, and cost savings for materials and services procured over the life of the new SAP supply chain system.

In October 2017, BCUC issued Order No. G-158-17 accepting the SCA Project's

capital expenditure schedule of \$22.5 million to \$29.7 required to complete work up

to the end of the Definition Phase and directed BC Hydro to file a Phase Two

Verification Report (Verification Report) at the end of the Definition Phase.

BC Hydro filed the Verification Report in October 2018, and in April 2019 the BCUC

²⁰ issued Order No. G-78-19 accepting the capital expenditure schedule of

²¹ \$38.5 million to \$45.4 million to complete the Implementation Phase.

BC Hydro was directed to file semi-annual progress reports on the SCA Project. The

- ²³ first progress report is being filed approximately six months from the date Order
- No. G-78-19 was issued, but will also cover the six months prior to that date.
- Progress Report No. 1 covers the period from October 1, 2018 to September 30,
- 26 2019 (the **reporting period**), and reflects the work undertaken in the Implementation
- 27 Phase.

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1 2 Project Status

Table 1

2 As discussed in the Verification Report, BC Hydro's Board of Directors authorized

- the SCA Project to proceed with Implementation Phase activities in September
- ⁴ 2018. These activities commenced in October 2018 and work continues to date.
- 5 Prior to April 2019, the SCA Project completed the detailed design and system
- 6 configuration activities, and began work on the technical solution build (i.e.,
- 7 development of custom programs). From April 2019 to the end of September 2019,
- 8 work on the following major activities has progressed: technical solution build, data
- ⁹ migration, "go-live" planning, system testing, and development of end-user training
- 10 materials.

12 13

11	This section discusses the status of the Project as at the end of the reporting period.
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Project Status Dashboard

Status as of:		September 30, 2019	Overall:	•
Overall Assessment	•	The project continues to progress on budget, on scope, with level of risk, and anticipates delivery of the planned benefits in-service date for the new SAP based system is now Febru which is within the Target and Committed In-Service dates of 2019 to March 2020 established in the Verification Report. H critical path tasks and deliverable elements are delayed, res amber rating for the schedule dimension and causing the ov rating for the project. The Project team is currently assessing the schedule slippage on the key project milestones, includin target In-Service date.	. The planne ary 18, 2020 of November dowever, so sulting in an rerall amber g the impac	ed 0, r ome t of
Scope & Activities	•	There have been no material changes to the Project scope s of the Implementation Phase. Please refer to Section $\underline{3}$ for n information on the changes to planned Project activities.		art
Cost	•	The Project's forecast cost at completion is within the range accepted capital expenditure schedule. There have been no draws against the project's \$8.0 million reserve amount. Ple section $\frac{4}{2}$ for more information on the Project cost.	approved	
Benefits	•	There are no changes in the Project's planned baselines, measures, and / or the tracking plan in this reporting period. Section <u>5</u> .		er to

Status as of:		September 30, 2019	Overall:	•
Risk	•	While the risk profile of the project continues to improve as of progresses and the number of unknown elements within the continues to be reduced, ongoing delays with some activitie in new project delivery risks. These new risks are the reason amber rating for risk. Please refer to Section <u>6</u> for an update of the Project's risks.	solution s have resu ns for the	ulted
Schedule	•	The current Target In-Service date is within the Target and O Service dates of November 2019 to March 2020 established Verification Report. In May 2019, the Project Steering Comr authorized a change to the project schedule, establishing a Service date of February 2020. Overall, the Project has prog schedule for key milestones; however, a number of critical p are currently progressing behind schedule placing the target date at risk and resulting in the amber rating. Please refer to further information on the changes to the Project schedule.	I in the nittee Target In- gressed on path activitie t in-service	es

3 Project Scope & Activities

- ² There were no material changes in project scope in the reporting period. This
- 3 section covers the major accomplishments and work completed in the reporting
- ⁴ period as well as provides updates on planned activities in the next reporting period.
- 5 There were a few changes in project activities as outlined in <u>Table 2</u> below. <u>Table 2</u>
- 6 provides a summary of the identified changes in project activities and the impact of
- ⁷ those changes. The cost and schedule implications of these changes are also
- ⁸ discussed in the Sections <u>4</u> and <u>7</u>, respectively.

Table 2

9 10

Identified Changes in Activities and Impact on the SCA Project

Description of Change	Identified Impact
Increased Ariba license fees and implementation services. Negotiated fees exceeded budgeted amount.	Additional cost
Additional BC Hydro IT testing support resources	Additional resources and cost
BC Hydro Project Coordinator role (unplanned)	Additional resources and cost
Funding for overtime worked by salaried BC Hydro staff	Additional resources and cost
System Integrator costs for additional training courses to be developed	Additional resources and cost
Additional BC Hydro (non-System Integrator) costs resulting from the schedule change and additional detailed design work	Schedule change and additional cost

Description of Change	Identified Impact
Additional System Integrator costs resulting from the schedule change and additional detailed design work	Schedule change and additional cost
Additional Quality Assurance Advisor costs resulting from the schedule change	Schedule change and additional cost
Access to Ariba via single sign-on	Additional cost

3.1 Major Accomplishments and Work Completed

- ² The following sections describe the major accomplishments completed during the
- ³ current reporting period.

4 **3.1.1 Configuration**

- 5 System configuration includes making entries and settings in pre-defined SAP
- ⁶ administration tables, which control the operation of the SAP application.
- 7 Configuration of the SAP system has been completed and is currently being tested
- 8 to ensure that the numerous configuration settings effectively support the new
- 9 business processes.

3.1.2 Detailed Design and Writing of Custom Program Code

Development of the solution detailed design was completed during this reporting period. This included the writing, review, and approval of the various functional and technical specification documents used to detail the design of 135 custom programs included in the solution.

Writing of the custom program code was materially completed this period with 130 of 135 custom programs completed, and the remaining five still in progress. Of the required 135 custom programs, 36 are modifications to existing programs and 99 are entirely new custom programs required to support the solution. Examples include modifications to the existing interfaces between PassPort and SAP, and new mobile applications to enable warehouse management tasks to be processed on iPhone and tablet devices.

1 3.1.3 Data Migration

During the current reporting period, the project completed the development of all 24 2 custom programs required to extract migration data from the legacy systems, to 3 transform the data into the required format for loading, and to load the data into the 4 new SAP system. Also during this period, detailed plans were developed and 5 execution started on data cleansing and enrichment activities for 56 unique data 6 elements. Examples of these activities include: cleansing existing vendor records, 7 capturing additional data to support enhanced quality management processes, 8 classification and enrichment of existing contract information, and cleansing and 9 enriching of inventory management data. 10

11 3.1.4 "Go-live" Planning

In May 2019, the project started to perform a series of practice or "mock" data
conversion exercises as part of the process to fully detail the cutover plan and to test
the conversion exercise. To date, three such mock conversions have been
completed with 21 of 24 data conversion items being tested in all three mock
conversion exercises, and all data conversion items being tested in at least one
mock conversion exercise.

In July 2019, and in preparation for moving into the testing stage of the project, the 18 initial detailed cutover plan was developed and then executed to create the project 19 testing environment. The results of this initial execution of the plan led to additional 20 details being added to a refined version of the cutover plan. The cutover plan is in 21 process of being executed a second time as the project prepares a second test 22 environment to be used in the second cycle of system testing. Information gathered 23 from this second conversion exercise will be used to further refine the cutover plan. 24 This process will be repeated for a third time in early December 2019 to create the 25 environment in which user-acceptance testing will be performed. Repeating the 26 process a number of times helps to ensure that the team will be well practiced and 27 able to successfully execute the system cutover during the go-live weekend. 28

1 **3.1.5 Testing**

On July 26, 2019, the Project's Steering Committee approved the project to move 2 into the testing stage. The first round of formal system testing started on July 29, 3 2019. To date, the team successfully completed over 100 test scripts. The testing 4 process, which included the tracking of defects that are identified through test 5 execution, is managed with a testing tool called "ALM". As of September 30, 2019, 6 the team had logged over 1,200 system defects. Of these, over 800 had been 7 successfully fixed and roughly 400 remain open. Of the current open defects, 2 are 8 listed as having a critical impact (i.e. they prevent the further execution of testing) 9 and 115 are listed as having a high impact (i.e. they seriously impair the system's 10 ability to operate). Defects are expected to be identified and addressed through all 11 stages of testing. 12

Testing activities are currently tracking approximately four to six weeks behindschedule.

3.1.6 End-User Documentation & Training

In this reporting period, the detailed planning for the development of the end-user
 training materials was completed, the team of 10 instructional designers was on boarded, and the development of training materials was started. The project team
 identified roughly 80 courses to be delivered to end-users. The courses range from
 short on-line courses to instructor led "hands on" classroom based courses.

Development of the training delivery schedule was also started this period, focusing on the roughly 1,600 employees who will attend classroom training. Initial planning for training delivery logistics was also started this period, including identifying trainers, booking facilities, and planning for required equipment.

Training material development activities are currently tracking roughly one month
 behind schedule.

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1 3.2 Plans for Next Six Months

- ² Work to be completed in the next reporting period includes the following:
- Completion of system testing, including execution of user-acceptance testing.
- Completion of the development of end-user training materials, finalization of
- 5 training delivery plans, and delivery of the initial rounds of end-user training
- 6 (focusing on training required prior to the system go-live);
- 7 Completion of data cleansing and enrichment activities;
- Establish pre-go live baseline measures for tracking the realization of benefits,
 as identified in Appendix I of the Verification Report;
- Finalization of cutover planning activities and execution of additional "mock"
- 11 cutover events in preparation for the go-live weekend; and
- Execution of the system go-live event.

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3.3 Quality Assurance Advisor's Monthly Report

KPMG remains the Quality Assurance Advisor on the Project and continues to
 provide reports on the Project's performance and progress on a monthly basis to the
 Project's Steering Committee. The report provides ongoing assessments on the
 governance structure, financial controls, benefits structure, project schedule and
 deliverables, and decision making, amongst other key areas.

7 Please see the latest monthly report submitted by KPMG attached as **Appendix A**.

8 4 Project Cost

9 4.1 Project Cost Summary

¹⁰ The actual total cost for the pre-Implementation phase was \$25.5 million. The BCUC

accepted the capital expenditure schedule of \$38.5 million to \$45.4 million to

- complete the Implementation Phase, and the estimated operating cost to complete
- the Implementation phase is \$7.4 million to \$8.5 million. This results in a total Project

14 Forecast Cost Range of \$71.3 million to \$79.3 million.

- ¹⁵ <u>Table 3</u> shows the current Project forecast cost and the actuals-to-date. Also
- ¹⁶ included in this section are variance explanations.

		А	В	С	D	E	F	G	Н		J	К	L
		Verific	ation Repor Estimate	t Cost	Curre	ent Forecast	Cost	Forecas	st Cost Anal	ysis	Act	ual Cost Ana	alysis
i n e #	Description	CapEx Cost	OpEx Cost	Total Cost	CapEx Cost	OpEx Cost	Total Cost	\$M [F - C]	% [F / C]	Notes	Actual Cost- to- Date \$M	% of Current Forecas t [K / I]	% of Verificat ion Report Cost Estimat e [K / C]
1	Pre-Implementation Costs												
2	Supply Chain Transformation Blueprint (Early Design Costs)	7.3	0.0	7.3	7.3	0.0	7.3	0.0	100.0%		7.3	100.0%	100.0%
3	Identification Phase Costs	0.0	1.2	1.2	0.0	1.2	1.2	0.0	100.0%		1.2	100.0%	100.0%
4	Definition Phase Costs	15.3	1.6	16.9	15.4	1.5	16.9	0.1	100.3%		16.9	100.0%	100.3%
5	Total Pre-Implementation Phase Cost	22.6	2.8	25.4	22.7	2.7	25.5	0.1	100.2%	1	25.5	100.0%	100.2%
6	Implementation Phase Costs												
7	System Integrator's Direct Costs												
8	Realization												
9	Final Preparation												
10	Stabilization												
11	Total System Integrator's Estimated Cost												
12	BC Hydro's Internal Direct Cost												
13	Realization												
14	Final Preparation												
15	Stabilization & Extended Onboarding												
16	Total BC Hydro's Internal Estimated Cost												
17	Total Implementation Phase Direct Costs												
18	Contingency (% * Direct Future Costs)									1			
19	Interest During Construction	2.3	0.0	2.3	1.9	0.0	1.9	-0.3	82.6%	10	1.1	57.2%	48.5%
20	Total Implementation Phase Expected Cost Estimate	38.5	7.4	45.9	38.3	7.4	45.7	0.0	99.5%		28.6	62.6%	62.3%
20	Total Project Expected Cost Estimate	61.1	10.2	71.3	61.1	10.2	71.3	0.0	100%		54.0	75.8%	75.8%

Table 3 Project Expenditure Summary – Forecast and Actual Cost

BC Hydro Supply Chain Applications Project

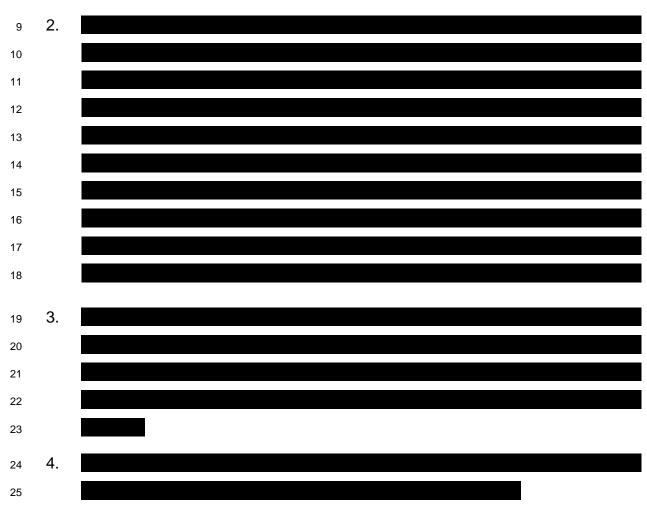
		Α	В	С	D	E	F	G	Н	Ι	J	K	L
		Verific	ation Repor Estimate	t Cost	Curre	ent Forecast	Cost	Forecas	st Cost Anal	ysis	Act	ual Cost Ana	alysis
i n e #	Description	CapEx Cost	OpEx Cost	Total Cost	CapEx Cost	OpEx Cost	Total Cost	\$M [F - C]	% [F / C]	Notes	Actual Cost- to- Date \$M	% of Current Forecas t [K / I]	% of Verificat ion Report Cost Estimat e [K / C]
21	Project Reserve - Reserve For Known Risks	1.3	0.0	1.3	1.3	0.0	1.3	0.0	100%		0.0	0.0%	0.0%
22	Project Reserve - Incremental Contingency	5.4	1.1	6.5	5.4	1.1	6.5	0.0	100%		0.0	0.0%	0.0%
23	Incremental Interest During Construction on project reserve	0.2	0.0	0.2	0.2	0.0	0.2	0.0	100%		0.0	0.0%	0.0%
24	Total Project Reserve	6.9	1.1	8.0	6.9	1.1	8.0	0.0	100%	11	0.0	0.0%	0.0%
25	Total Project Authorized Cost Estimate	68.0	11.3	79.3	68.0	11.3	79.3	0.0	100%		54.0	68.1%	68.1%

Numbers may not add up due to rounding

1 Notes refer to notes 1 to 11 in Column I of <u>Table 3</u>:

2 Changes in Pre-Implementation Phase Costs:

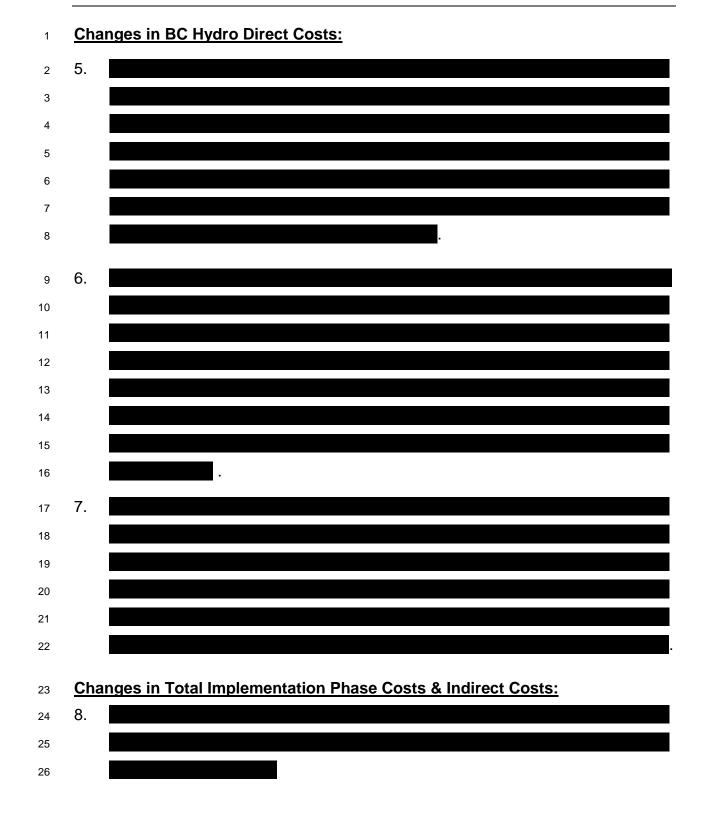
- 3 1. The actual costs incurred in completing the pre-Implementation phase activities
- 4 were \$100,000 higher than reported in the Verification Report. This was
- 5 primarily due to an unplanned \$250,000 for BC Hydro employee's overtime pay
- 6 for additional work performed during the Definition Phase. This unplanned
- ⁷ amount was partially offset by several tasks being completed under budget.



8 Changes in System Integrator Implementation Phase Direct Costs:



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1	9.	The Implementation Phase contingency amount has been reduced by
2		of operating cost contingency and of capital cost
3		contingency) as a result of the contingency draws approved by the project
4		Steering Committee and outlined in <u>Table 4</u> below. Of the original 5.7 million in
5		contingency, the project has example of contingency remaining. This
6		represents approximately per cent of the remaining future direct costs on
7		the project.
8	10.	The forecast Interest during Construction (IDC) for the Implementation Phase
9		has decreased by \$300,000 due to the difference in the method used to
10		forecast IDC and the more detailed daily calculation used to assign actual IDC.
11	11.	The total Project Reserve amount remains unchanged from the Verification
12		Report.

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4.2 Project Contingency Draws

Table 4

A summary of the changes to Project activities and the identified impacts are
outlined in Section <u>3</u>. Some of the changes in Project activities had a cost impact
due to an extension of the schedule or the need for more than the planned amount
of resource hours. Project contingency draws are approved by the Project Steering
Committee, and none of the approved contingency draws are as a result of changes
in the project scope.

The extension to the Project schedule resulted in three draws on contingency of to cover the additional costs associated with the increased resource time as follows: to cover the additional BC Hydro costs, to cover the additional System Integrator's costs, and to cover the additional Quality Assurance Advisors' costs. Please see section 7 for a discussion on the extension to the Project schedule. The balance of **Constitution** was generally due to additional resources being required to complete the planned activities.

15

16

Description of Change		Identified Impact	
	Impact	Capital Contingency (\$'000)	Operating Contingency (\$'000)
Increased Ariba license fees and implementation services. Negotiated fees exceeded budgeted amount.	Additional cost		
Additional BC Hydro IT testing support resources	Additional resources		
BC Hydro Project Coordinator role (unplanned)	Additional resource		
Funding for overtime pay for BC Hydro employees for additional work in the Definition and Implementation phases	Additional resource time		
System Integrator costs for additional training courses to be developed	Additional resources		
Additional BC Hydro (non-System Integrator) costs resulting from the schedule change and additional detail design work	Schedule change and additional cost		

Identified Changes in Activities and Impact on Scope and Contingency

Description of Change	Identified Impact				
	Impact	Capital Contingency (\$'000)	Operating Contingency (\$'000)		
Additional System Integrator costs resulting from the schedule change and additional detail design work	Schedule change and additional cost				
Additional Quality Assurance Advisor costs resulting from schedule change	Schedule change and additional cost				
Access to Ariba via single sign-on	Additional cost				
	Total draws:				

4.3 Summary of Individual Contracts Exceeding \$3.0 million

2 The table below provides a summary of the total contract with PwC, the System

³ Integrator, as reflected in the Statements of Work (**SoW**). There are no other

\$3.0 million

4 contracts exceeding \$3 million.

5 6

Table 5

Actuals to No. Supplier and Scope of Supply Initial Forecast Sept Contract Contract 30.2019 Value Cost (\$ million) (\$ million) (\$ million) 1 PwC System Integrator Costs - Design n/a Stage 2 PwC System Integrator Costs -Implementation Phase

Summary of Contracts exceeding

7 8

9

10

1 Total fixed fee as of Statement of Work #2 signed on February 9, 2018

2 This is the final contract amount for the work completed in the Design Stage.

3 Total fixed fee as of Statement of Work #3 signed on October 19, 2018.

4 Actual costs to date based on PwC's accrued amount.

5 Project Benefit Realization Plan

BC Hydro is finalizing the baselines and metrics and measures in the

13 Implementation Phase by iteratively assessing business impacts. There are no

changes in planned baselines, metrics, measures, and / or the tracking plan in this

reporting period. The Benefit Tracking Sheets filed as Appendix I-1 with the

1 Verification Report reflects the most up-to-date information on the expected benefits

² and the tracking plan.

6 Project Risks

In this section, BC Hydro provides updated mitigation plans and status, and updates
 on the probability and impact assessments for risks as identified in the Phase Two
 Verification Report in <u>Table 6</u>. Project risks continue to be managed through the risk
 management process, and identification of new risks is supported by the ongoing
 quality assurance assessments provided each month by the Project's Quality
 Assurance Advisor. Please refer to **Appendix C** for the Project Risk Register
 Our current assessment of the overall Project risk is lower than at the beginning of

the Implementation Phase. This is due to the progression in Project activities, the

decrease in the number of unknown elements, and the fact that the impact of the

13 solution is better defined. However, there are ongoing delays with some activities

that have resulted in new project delivery risks identified in <u>Table 6</u>.

¹⁵ BC Hydro has grouped the risks into the following four categories:

1. **Business risk:** These risks have the potential to impact BC Hydro's ability to 16 realize business benefits from the project. They include: how the extent of 17 change required to current business processes impacts BC Hydro's ability to 18 realize the benefits upon which the project is justified (the supporting of the 19 Supply Chain Business Requirements, the closing of the capability gaps and 20 the achievement of monetized benefits); and the risk the business experiences 21 a reduction in productivity during the transition period from the existing to new 22 supply chain; 23

Technology risk: The technology risk assessment considers the maturity of
 the technologies used to deliver the technical solution. Overall, the SAP supply
 chain IT configuration that BC Hydro plans to implement is very mature and

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considered low risk from both a probability and consequence perspective. 1 However, there are a few elements included in the project design which are 2 less mature and for which limited deployment experience exists at BC Hydro; 3 **Project Delivery risk:** The project delivery risk assessment considers the key 3. 4 project delivery related risks that have been identified as having the potential to 5 impact BC Hydro's ability to deliver the project on time, on budget and with 6 quality; and 7 Readiness risk: The readiness risk assessment considers the key risks related 4. 8

4. Readiness risk: The readiness risk assessment considers the key risks related
 to organizational readiness that has the potential to impact BC Hydro's ability to
 successfully undertake the project.

No.	Risk Category	Current Risk	Risk Event / Threats	Updated Mitigation Plans & Mitigation	Verificati	on Report	Repoi	't No. 1
		Status		Assessment	Mitigation Status	Probability and Impact	Mitigation Status	Probability and Impact
1	Business	Active, Updated	Risk that the scale of business process changes is too large to be absorbed successfully by BC Hydro.	Change management business engagement activities continue to be executed according to plan. Impacted business groups highly engaged in development of detailed transition and readiness plans.	In Progress	Medium probability; medium impact.	In Progress	Medium probability; medium impact.
				Governance processes continue to function effectively.	In Progress		In Progress	
				Previous plans regarding the extended stabilization period and the development of detailed benefits realization plans remain unchanged.	In Progress		In Progress	
2	Business	Active, Updated	Risk that reduced productivity is experienced by the business while it transitions to the new supply chain	Change management business engagement activities continue to be executed according to plan. Impacted business groups highly engaged in development of detailed transition and readiness plans.	In Progress	High probability; low impact.	In Progress	High probability; low impact.
				Previous plans regarding the extended stabilization period remain unchanged.	Planned		Planned	
3	Technology	Inactive	Risk that integration between SAP Fiori and UI5 screens is more costly to develop than anticipated	Development completed within budget.	Monitoring	Low probability: Low impact	Complete	Risk has passed

Table 6 Implementation Phase – Risks and Risk Mitigation Summary

No.	Risk Category	Current Risk	Risk Event / Threats	Updated Mitigation Plans & Mitigation	Verification Report		Report No. 1	
		Status		Assessment	Mitigation Status	Probability and Impact	Mitigation Status	Probability and Impact
4	Technology	Active, Updated	Risk that interfaces to be developed between SAP and Unifier Construction Contract Management are new to BC Hydro, leading to unclear business needs	Confirmed that the additional interface is most likely not required. Will continue to monitor through stabilization to confirm this is the case.	Monitoring	Low probability: Impact estimated at \$0.3 million.	Monitoring	Very Low probability: Impact estimated at \$0.3 million.
5	Project Delivery	Inactive	Risk of adverse or delayed British Columbia Utilities Commission Order		Complete	Risk has passed	Complete	Risk has passed
6	Project Delivery	Inactive	Risk of requirement to undertake a protracted regulatory process in order to proceed with Implementation phase work	Regulatory process completed without disruption to project timeline.	Monitoring	Low probability: High impact	Complete	Risk has passed

No.	Risk Category	Current Risk	Risk Event / Threats	Updated Mitigation Plans & Mitigation	Verificati	on Report	Repoi	rt No. 1
		Status		Assessment	Mitigation Status	Probability and Impact	Mitigation Status	Probability and Impact
7	Project Delivery	Active, Updated	Risk that the proposed offshore development model is determined to be impractical or ineffective. As discussed in section 2.3.2.1 [of the Verification Report], the benefits of offshore development include, but not limited to, lower cost and a 24-hour development cycle due to having resources in another time zone.	Some residual risk remains that off- shore development will prove to be ineffective or produce low quality outputs. Reserve of \$1 million included in Implementation Phase estimate to cover cost of completing additional development on-shore.	Monitoring	Low probability; impact estimated at \$1 million.	Monitoring	Very Low probability; impact estimated at \$1 million.
8	Project Delivery	Inactive	Risk of unsuccessful System Integrator Request for Proposal					
9	Project Delivery	Active, Updated	Risk of weak project governance	KPMG continues to be engaged and working closely with the project team. Risk has materially passed as governance processes continue to function effectively.	In Progress	Low probability: high impact	Monitoring	Very Low probability: high impact
10	Project Delivery	Active, Updated	Risk of poor project management	KPMG continues to be engaged and working closely with the project team. BC Hydro's project governance processes continues to work effectively	Monitoring	Medium probability; high impact	Monitoring	High probability; medium impact

No.	Risk Category	Current Risk	Risk Event / Threats	Updated Mitigation Plans & Mitigation	Verificati	on Report	Repo	rt No. 1
		Status		Assessment	Mitigation Status	Probability and Impact	Mitigation Status	Probability and Impact
				The probability of this risk has increased as reflected by having to repeatedly re- plan work due to schedule slippage. The impact of the risk is reduced from high to medium as the project has progressed further along thorugh implementation phase.				
11	Project Delivery	Active, Updated	Risk of lack of clear Supply Chain Business Requirements	Business requirements further detailed through early Implementation Phase detailed design activities and recorded in realization deliverables Updated Functional and Non-functional Requirements List and Requirements Traceability Matrix.	Monitoring	Low probability: Medium impact	Monitoring	Low probability: Medium impact
12	Project Delivery	Active, Updated	Risk of scope creep, unnecessary complexity and customization	Project change control processes functioning effectively for managing minor design changes. No material scope changes requested or approved. No significant scope risks exist currently.	Monitoring	Low probability: medium impact	Monitoring	Low probability: medium impact
13	Project Delivery	Active Updated	Risk of unforeseen PassPort functionality issues	BC Hydro PassPort support team fully engaged in project activities, including testing of new solutions and assessing impacts on remaining PassPort functions.	Monitoring	Low probability, high impact	Monitoring	Low probability, medium impact

No.	Risk Category	Current Risk	Risk Event / Threats	Updated Mitigation Plans & Mitigation	Verificati	on Report	Repo	rt No. 1
		Status		Assessment	Mitigation Status	Probability and Impact	Mitigation Status	Probability and Impact
14	Project Delivery	Active, Updated	Risk of poor quality of delivery by SI	The probability of this risk has increased, as the project has not yet met the quality threshold to exit the first formal test cycle. As project progresses, the impact of this risk is reduced as BC Hydro's resources are more knowledgeable and less dependent on the System Integrator's expertise.	In Progress	Medium probability, high impact	Monitoring	High probability, medium impact
15	Project Delivery	Active, Updated	Risk of low data quality and or data not being ready according to Project Schedule	Detailed data clean-up and enrichment plans development and being executed.	In Progress	Medium Probability, medium impact	In Progress	Low probability, medium impact
16	Readiness	Active, Updated	Risk of lack of availability of BC Hydro non-technology resources	Project continues to operate effectively with planned resource levels.	In Progress	Low probability: high impact	In Progress	Low probability: high impact
17	Readiness	Active, Updated	Risk of lack of availability of BC Hydro technology functional sustainment resources	Project continues to operate effectively with planned resource levels.	In Progress	Low probability, medium impact	In Progress	Low probability, medium impact
18	Project Delivery	New	Risk that reporting is not developed in time for initially planned testing dates	Build into Project schedule plans for ITC2 execution to align with report delivery. Manage scope closely through change control process to ensure build phase does not overrun.			In Progress In Progress	High probability, medium impact

No.	Risk Category	Current Risk	Risk Event / Threats	Updated Mitigation Plans & Mitigation	Verificati	Verification Report Re		port No. 1	
		Status		Assessment	Mitigation Status	Probability and Impact	Mitigation Status	Probability and Impact	
19	Project Delivery	New	Risk that training materials are not developed in time for initially planned training delivery dates	Monitor the effectiveness of updated plans and corrective actions presented to the PMO. Assess options to modify training delivery schedule to allow additional time to complete material development by delaying start of initial pre-go live training.			In Progress	High probability, medium impact	

BC Hydro Power smart

7 Project Schedule

In this section, BC Hydro provides the updated Project schedule and explains
changes in the project's schedule. The current Target In-Service date for the Project
is now in February 2020. This date falls before the Committed In-Service date
identified in the Verification Report.

In May 2019, the Project Steering Committee approved an update to the project
 schedule, setting the Target In-Service date to February 2020. This extended the
 system build and testing schedule by 13 weeks from the previous Target In-Service
 date in November 2019. The decision to place the Project into service in February
 2020 was driven by a number of considerations, including:

- Roughly six weeks of schedule slippage on some critical path activities early in
 the Implementation phase such as the completion of detailed design and the
 development of custom program code;
- Required calendar year-end activities to apply mandated tax and payroll
 updates to the current SAP production system which restricts the SCA Project
 from being placed into service between late November and early January;
- Allowing time in late December-early January period for the project team to
 have a break prior to the expected heavy workload of the go-live and early
 stabilization period early in the following year; and
- Providing time to allow for the "hands on" training on the new system to be
 delivered in January 2020, thereby enabling the training to be delivered as
 close to the go-live event as possible.
- The 13 week overall extension is comprised of the components outlined in <u>Table 7</u>
 below:

	Table 7	Project Schedule Change Components		
ltem	Project Stage	Description	Extension	
1	Realization	Additional time to complete build activities prior to the start of integration testing. The delay is a result of the additional work and review required to complete and close out the detailed design decisions, functional specifications, and delays in the planned completion of various technical items (i.e. programming).	6 weeks	
2	RealizationAdditional time between integration test cycles to allow for additional time for defect resolution and preparation of test environments as based on a revised evaluation of project risks.Final PreparationNon-working time through the Christmas Holiday period.		2 weeks	
3			2 weeks	
4	Final Preparation	Additional time per BC Hydro's request to not have user-acceptance-testing (UAT) activities overlap with the delivery of end-user training, and additional UAT time and pre-go live training time to allow proper review by the BC Hydro business groups as per BC Hydro standards and reduce overall project risk.	3 weeks	
		Total	13 weeks	

2 The extension to the project schedule resulted in draws on contingency to cover the

additional costs associated with the increased resource time. Refer to Section <u>4.2</u> for

⁴ further information on the resulting contingency draws.

BC Hydro

Power smart

5 <u>Table 8</u> below provides an update on the key milestones for the Project as of May

⁶ 2019 and the status of these milestones as of September 2019. Please refer to

7 Appendix D for the latest approved Project schedule.

Table 8 Project Milestones

No.	Stage	Planned Date	Actual or Forecast Date	Status
1	BC Hydro releases Implementation Phase work to System Integrator and Quality Assurance Advisor	October 2018	October 2018	Completed as scheduled
2	Implementation - Build Solution	October 2018 to November 2019	October 2019 to February 2020	Expected late completion
3	Target In-Service Date	November 2019	February 2020	Target in-service date is at risk of further delay.
4	Committed In-Service Date	March 2020	March 2020	No change

No.	Stage	Planned Date	Actual or Forecast Date	Status
5	Implementation – Stabilization	March 2020 to Mid July 2020	March 2020 to Mid July 2020	Expected on-time Completion
6	Implementation – Onboarding	March 2020 to March 2021	March 2020 to March 2021	Expected on-time Completion
7	Project Completion	March 2021	March 2021	Expected on-time Completion

¹ Since the Project schedule was revised in May 2019, several project activities have

² progressed behind schedule, including the development of custom programs,

3 system testing, and the development of end-user training materials. The Project is

4 currently four to six weeks behind schedule due to delays in the completion of the

⁵ first cycle of integration testing and development of training materials. This delay

6 may result in another revision to the Target In-Service date as a result of impacts to

7 downstream activities. The project team is currently assessing techniques to

8 possibly recover the schedule time lost due to the delay. In addition, the project team

⁹ is also reviewing the impact of placing the system into service during the busy fiscal

10 year-end period, which could result in a further delay. A forecast of the In-Service

date is expected in late November 2019, and will be provided in the next progress

report to be filed in April 2020.



BC Hydro Supply Chain Applications Project

Progress Report No. 1

Appendix A

Quality Assurance Advisor's Monthly Project as of September 19, 2019

Appendix A

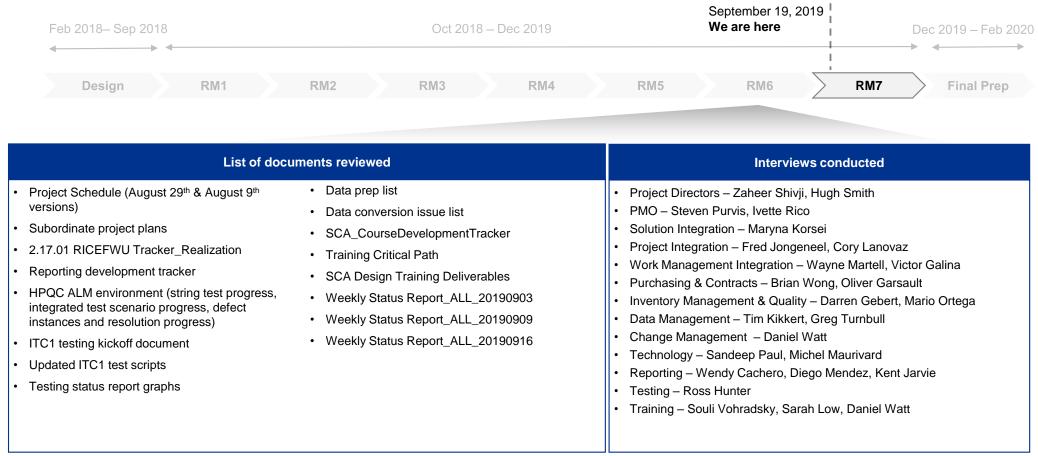


Monthly Project Update

Prepared for BC Hydro SCA Steering Committee

September 19, 2019

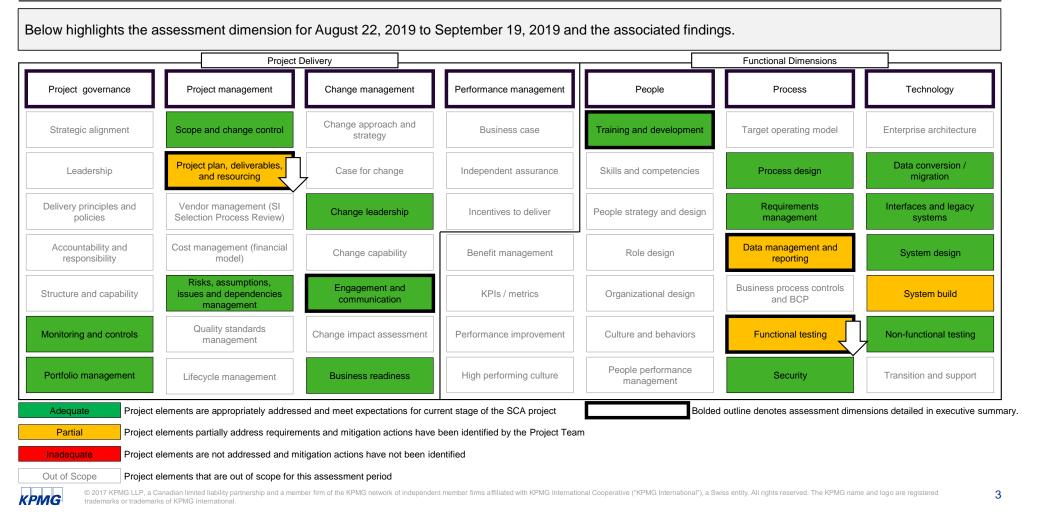
Activities Completed December August 22 – September 19 2019





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GETT Assessment Dimensions for This Period



Executive summary

For this period the assessment identified the following key observations and recommendations.

		ITC 1: Based on KPMG's assessment, the risk for functional testing has increased. ITC 1 is currently behind schedule. As of Sep 17, HP ALM indicates that for the Integrated Scenarios, ~72% of test scripts under integrated scenarios have been executed, ~ 52% of test scripts have been executed and passed.
		KPMG observed that the project team had challenges executing against the test plan. Several key assumptions used for the testing plan did not hold true:
Functional Testing	Functional Testing	 <u>Development objects</u>: A number of RICFEWU objects were not completed and available for testing at the original planned date. As of the final week of ITC 1 (Sep 9), the RICFEWU tracker indicated that 14 objects had not yet passed FUT: 7 ARIBA objects, 5 non-ARIBA objects which had been planned for promotion during ITC 1, and 2 other non-ARIBA objects. As of Sep 16, the Weekly Status report indicates that 9 objects have not yet passed FUT (ARIBA and non-ARIBA). <u>Script detail</u>: Test scripts were not sufficiently detailed and required further re-work before tests could be executed. <u>Unclear data dependencies</u>: Data dependencies for running test scripts were unclear, and as a result in some cases data was not staged and ready for testing. <u>Integrated scenarios</u>: For some integration scenarios, entry and exit requirements for string tests between streams did not line up, which blocked testing for the scenario and required additional work to revise the test scripts.
		 ITC 2 Resource capacity KPMG is concerned that the delay for ITC 1 could impact the completeness for ITC 2 testing, as the project team will need to simultaneously close ITC 1 and prepare for ITC 2. Development completeness KPMG is also concerned that as FUT might not be completed for some reporting and ARIBA objects in advance of ITC 2, defects from these two objects could block testing to a greater degree than anticipated and create further schedule risk.

Executive summary – cont'd

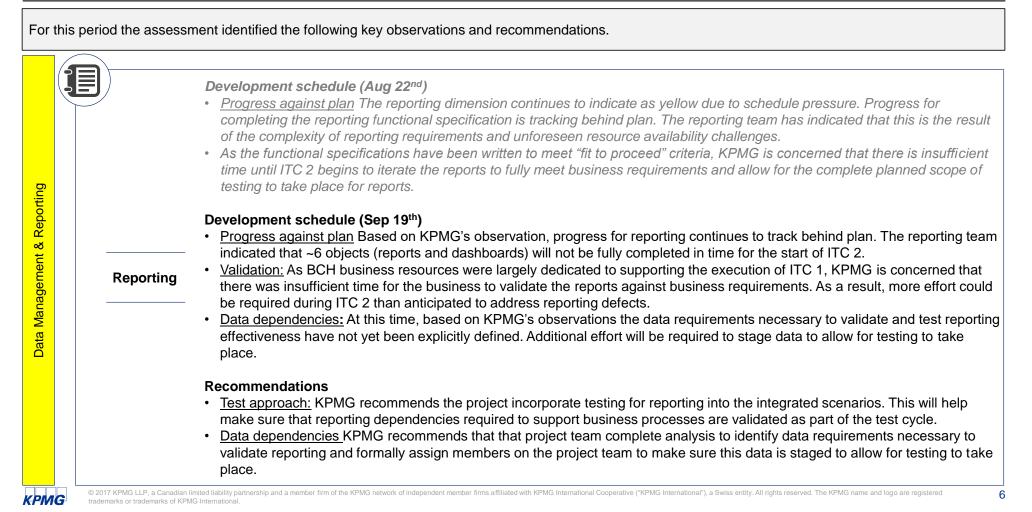
For this period the assessment identified the following key observations and recommendations.

		Schedule Based on KPMG's observations, schedule risk is increasing. ITC 1 consumed significantly more time from business resources than was estimated, which has created workload balancing issues resulting in bottlenecks. Stream leads have indicated that business resources have reduced capacity to support other activities on the critical path including communication and engagement, training material development and report validation.
nent		KPMG is concerned that this schedule risk could have an impact on completing business readiness activities.
Project Management	Project plan, deliverables and resourcing	 <u>Recommendation</u> KPMG recommends that the project: 1. Where required, identify dependencies between deliverables to sequence completion dates and identify deliverable requirements; 2. Validate that the assumptions used to identify resource requirements, activity duration and planned completion dates continue to be appropriate; and 3. Identify and assess contingency scenarios if effort and duration requirements are greater than expected compared to the base case. Develop recovery plans if required.
		The SI PMO has indicated that the project is in the process of re-assessing effort requirements for key resources and will adjust the project plan accordingly to better balance workload and reduce bottlenecks.



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Executive summary – cont'd



BC Hydro Supply Chain Applications Project



GETT Dimension	Assessment Area	Trend	Expectation	Findings	Follow Up
Project Management Project Plan, Deliverables, Resourcing	Project Plan and Resource Plan	Ţ	 Project and resource plans are responsive to project changes (e.g. design decisions affecting project deliverables, dependencies, effort requirements, etc.) and feedback from Project Team. The updated project plan reflects the findings of the SCA team and integrates lessons learned regarding timing, effort and resource requirements; areas of the project experiencing challenges are outlined to a greater level of detail to provide clarity and direction to team members. 	Please refer to executive summary section for full details.	Please refer to executive summary section for full details.

Key Findings



	ETT ension	Assessment Area	Trend	Expectation	Findings	Follow Up
	Change Leadership	Change Leadership		 Roles and responsibilities have been identified for Change Leaders. The Engagement and Communication Plan is suitably detailed (e.g. plan identifies: communication channels, detailed activities, roles and responsibilities, target completion 	 BAR Based on KPMG's observations, the Change Team is continuing to address feedback captured during BAR 1 and are communicating outcomes to the 	KPMG will continue to monitor the
Change Management	Engagement & Communication	Engagement Activities		 dates, and progress tracking). Progress against the Engagement and Communication Plan is tracked and documented consistently. An approach has been identified to assess effectiveness of communication campaigns. 	 business through various channels (e.g. emails, Hydroweb) BAR 2 logistics have been arranged and invites distributed. The Change Team is finalizing the agenda, content and deliverables. 	outcomes of BAR 1 and development of BAR 2 materials.
	Business Readiness	Business Transition Plan		 Project has identified an approach to develop a transition plan which will address go-live, and post go-live; business, and technical, requirements, and dependencies by stream. 	 The project has completed on-boarding the new BTP lead. The Change Team has indicated that with the new leadership and support from the Business Strategy Advisor, activity execution and progress has consistently improved. On-boarding has begun for Transition Point People and transition packages have been prepared to varying levels of detail depending on the impact to each TPP's KBU. 	 KPMG will continue to monitor the development of the transition plan and TPP on-boarding material.



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GETT Dimension		Assessment Area	Trend	Expectation	Findings	Follow Up
People	Training & Development	Training Plan		 Training plans and trackers are kept up to date and are leveraged as a source of truth for progress and upcoming activities. Course outlines are being developed with input fro various stakeholders (BSL's, KBU leads, etc.) and Courses are being developed based on outlines and cover both technical and business training requirements. 	 The Training Team has communicated that course development has not progressed according to plan, citing two main reasons: Constraints on business resourced due to ITC 1 and custom development priorities Delayed completion of development reference material (i.e. PDD section 3 documents) Based on KPMG's observations, there is an emerging risk that training will fall behind schedule as the stated factors continue to remain a challenge for the project. Business training resources are being identified and actively on-boarded; the Training Team have indicted there is strong and positive engagement from the business. 	 KPMG will continue to observe the development of training materials and monitor the risk status of the stream.
	Organizational Design	Organization Alignment		 Plans have been created to identify changes in role descriptions and employees impacted by the SCA Project. 	 The Change Management Lead is continuing to work with the HR department to finalize the two new roles being created. 	 KPMG to will follow up with the Change Team on the status of the HR review.



GE Dime	TT nsion	Assessment Area	Trend	Expectation	Findings	Follow Up
Process	Data Management & Reporting	Reporting		 Reporting requirements have been identified and consistently documented. Disposition for reporting requirements have been identified. Requirements needing custom development have been identified and planned for. Progress is monitored and tracked in a consistent and timely manner. Development progresses on schedule 	Please refer to executive summary section for full details.	Please refer to executive summary section for full details.



	TT nsion	Assessment Area	Trend	Expectation	Findings	Follow Up
Process	Security	Security Plan		 The security approach considers access requirements for Data, System Transactions, and Reporting. Progress is tracked for configuring and testing solution to meet security requirements. Security profiles have completed unit testing and fully loaded into environment for ITC 2. 	 Security unit tests have been executed independently in ITC 1, but the PMO have indicated they will be integrated with process scripts in ITC 2 for full scenario testing. 	 KPMG will continue to monitor progress with security document development and unit testing.
Technology	Data Conversion / Migration	Data Requirements and Quality Assessment		 Data requirements have been suitably documented including: data object description, scope inclusion, criticality for go-live, source system, target system, and quality. A suitable plan has been developed for data conversion, enrichment, and cleansing and is updated regularly. Master data governance processes have been planned for based on requirements identified. 	 ITC 1 Due to the development delays with MDG development, the Data Team has indicated that the full MDG load will likely extend beyond the scoped ITC 1 end date. ITC 2 The Data Team has indicated that a the draft ITC 2 load plan will allow for ITC 1 testing progression at the same time as ITC 2 prep activities in order to mitigate schedule impacts. Data prep for ITC 2 objects is ongoing and progressing according to plan. Based on KPMG's observations, data specific entry criteria will be met by the scoped ITC 2 start date (100% of master data, 80% transactional data). 	 KPMG will continue to monitor progress against data prep activities for ITC 2



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GETT Dimension	Assessment Area	Trend	Expectation	Findings	Follow Up
Technology System Build	Custom Development		 Custom development follows a consistent process for sequencing and prioritizing activities. Progress is monitored and tracked in a consistent and timely manner. Development progresses on schedule. 	 <u>Schedule Impacts</u> Based on KPMG's observations, delayed completion of custom development and FUT has blocked string test and integrated test scenario execution in many cases. The Technology Team and PMO have communicated that all lagging development objects are being tracked and mitigation strategies are being defined to limit further schedule impact. <u>Development Quality</u> Based on KPMG's observations, although considerable improvement has been made, offshore development quality continues to cause challenges for the Project. The Technology Team raised a potential risk around the consistent updating of Technical Specification Documents following the resolution of defects; a reconciliation process will likely be required by the Project to ensure all TSDs are up to date. 	 KPMG will continue to monitor development and FUT progress. KPMG will follow-up with the Technology Team during the nex assessment period to discuss any updates with the internal review of development quality.



GETT Dimension	Assessment Area	Trend	Expectation	Findings	Follow Up
Technology Non-Functional Functional Testing testing	Detailed Test Plan	Ļ	 A consistent process is followed to track test outcomes, manage defects, and assess solution progress. Defects are triaged, escalated and resolved in-line with the testing plan and any existing BC Hydro testing and defect management strategies. The testing team and work stream leads have identified a suitable level of detail for test scripts. 	Please refer to executive summary section for full details.	Please refer to executive summary section for full details.



Appendix B

August – September 2019 Meeting Agendas

Appendix A

Meeting Agendas

Meeting`	Date	Attendees	Topics
Project Directors	Sept 13	Zaheer Shivji, Hugh Smith	Key messages from stream meetings, Project risk rating adjustments
Project Management Office	Sept 12	Steven Purvis, Ivette Rico	Schedule risks, project progress updates, ITC1 progress, development objects, reporting functional specifications and development effort,
Project Integration Team Lead	Sept 16	Fred Jongeneel	PDDs, string and integrated testing, BAR, customer development, security testing
Purchasing & Contracts Team Leads	Sept 10	Brian Wong, Olivier Garsault	PDDs, string and integrated testing, BAR, customer development, security testing
Work Management Team Leads	Sept 11	Wayne Martell, Victor Galina	PDDs, string and integrated testing, BAR, customer development, security testing
Inventory Management & Quality Team Lead and support	Sept 10	Darren Gebert , Mario Ortega	PDDs, string and integrated testing, BAR, customer development, security testing
Data Management Team Leads	Sept 11	Greg Turnbull, Tim Kikkert	Data prep and conversion progress, testing environments, MDG development and FUT
Technology Team Leads	Sept 11	Sandeep Paul, Michel Maurivard	Technical spec development, defect management and risks, offshore team capacity, testing environments
Reporting Team Leads	Sept 16	Kent Jarvie, Wendy Cachero, Diego Mendez	Project plan, functional spec development, development efforts, technical design documents testing approach, backend development
Change Management Team Lead	Sept 13	Daniel Watt	BAR debrief, training, HR role assessment
Solution Integration Leads	Sept 11	Maryna Korsei	ITC1, development objects, reporting functional tests, defect management, PDDs, security documents



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Meeting Agendas

Meeting	Date	Attendees	Topics
Testing Lead	Sept 12	Ross Hunter	Integrated testing execution and test status, HPQC ALM test environment and progress reports, defect management
Training Leads	Sept 10	Souli Vohradsky, Sarah Low, Daniel Watt	Training outline and course development progress, Instructional designer on-boarding, schedule and deliverables



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Planned Assessment Activities

Appendix A

Planned Assessment Activities for Next Period

The planned quality assurance assessment for the period of September 19th to October 17th will include the following items. This list is not meant to be exhaustive or comprehensive.

Week of	Activities
September 30	 Review progress in ITC 1 completion, PDD completion, reporting front end development, ITC 1 exit and ITC 2 entry criteria compliance, and training course development
October 7	 Interview Key Stakeholders (Work-stream Leads, Functional Leads, PMO, Project Directors) Review progress of ITC 1 completion, ITC 2 data prep and mock loads, reporting functional specifications, development of training materials, and general project schedule progress
October 10	Prepare Project Update to the Steering Committee



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Appendix A







BC Hydro Supply Chain Applications Project

Progress Report No. 1

Appendix B

Project Benefit Realization Plan Update

There are no changes in planned baselines, metrics, measures, and / or the tracking plan in this reporting period.



BC Hydro Supply Chain Applications Project

Progress Report No. 1

Appendix C

Risk Register

ID Title	Current Created Status	Risk Score Impact	Likelihood	Risk Owner	Treatment Strategy	Risk Response/Mitigation
	30. Mitigation Strategy				Treat (or	Build into Project schedule plans for ITC2 execution to align with report delivery. Manage scope closely through change control process to ensure build phase does not overrun.
97 Reporting Timeline	2019-05-29 Defined	12	3	4 Hunter, Ross	Reduction)	
Training materials not developed in time for initially planned training 105 delivery dates	30. Mitigation Strategy 2019-09-25 Defined	12	3	4 Hunter, Ross	Treat (or Reduction)	Updated plan and corrective actions presented to PMO Oct 1, 2019. Will continue to monitor effectiveness of corrections. Decision timing on late November 2019 to fully assess impact of delay and corrective actions. Assessing options to modify training delivery schedule to allow additional time to comlete material development by delaying start of initial pre-golive training. Each bot may been asked them startegy to dear wine proteinan commits including toernarying other
	30. Mitigation Strategy				Treat (or	project and business resources that can build solution knowledge in order to take on some CM activities Change Advisors have been assigned to each workstream to establish well planned focused activities to maximize BSL impact Establish Influencer/Relationship Steward tactic to identify influential business resources in each impacted area to act as conduits for communication & engagement. Influencers are actively supported by Relationship Stewards (including BSLs) to build/channel solution knowledge to
63 Capacity of Business Solution Leads	2018-10-25 Defined	8	2	4 Shivji, Zaheer	Reduction)	impacted Stakeholders
20 Residual risk to "turn off" supply chain functions in PassPort.	30. Mitigation Strategy 2018-02-20 Defined	6	2	Peachey, 3 Tanya	Treat (or Reduction)	Regression test 1 has been completed and second regression test will be performed during ITC2. An integrated project plan has been created by SI, Trinoor and BC Hydro sustainment team to ensure a comprehensive testing and conversion approach.
30 Interdependencies between SCA and other ongoing initiatives	30. Mitigation Strategy 2018-04-03 Defined	6	2	3 Rico, lvette	Treat (or Reduction)	SCA project established as a key priority by the Executive Team. A Solution Alignment forum has been established to manage system changes and environment availability. This body has representatives from each of the major ongoing projects.
37 Performance issues SAP ECC-Transaction CJ20N	30. 2018-05-11 Mitigation	6	2	Gupta, 3 Abhinav	Treat (or Reduction)	To be reviewed as part of the results of planned system performance testing.
67 Central Warehouse Renovation Project	30. Mitigation Strategy 2018-11-19 Defined	6	3	Gebert, 2 Darren	Treat (or Reduction)	Warehouse renovation project are changing the sequence of work to focus on the rebuilding of the main warehouse building ahead of the construction of the new Critical Spares storage building. This should allow the work in the main warehouse building to be completed in time to not impact SCA. SCA has asked that the main warehouse building to be completed by Sept 1, 2019. Some risk remains that their schedule will slip as they do not have final permitting yet. Bi-weekly touch base meetings to continue to monitor risk.
Change in BC Hydro external auditor could introduce additional testing or 76 review requirements	30. Mitigation Strategy 2019-01-23 Defined	6		3 Shivji, Zaheer	Tolerate (or	Project has no option but to accept this risk. Will continue to connect with the Controller's office to better understand any potential requests of the project so they can be accommodated into plans as early as possible.
Residual risk - Fail to reclassify of "SAP Personnel Number" to become non private information may result in Partner Number on PO/OA transactions 80 need to be masked.	30. Mitigation 2019-03-11 Strategy	6	3	Setiawan, 2 Ben	Treat (or Reduction)	Apply enhancement to mask personnel id in OA/PO transactions if the replacement of personnel number as authentication in other systems cannot be done in time.
Additional SAP ECC or Ariba licensing may be required to support future 84 state service entry sheet process	30. Mitigation Strategy 2019-03-25 Defined	6	2	3 Shivji, Zaheer	Treat (or Reduction)	Conduct analysis of transaction channels and mapping to existing contracts to determine which vendors will transact on each platform (Ariba vs. ECC Fiori). Use the outcome of this analysis to: - refine estimate of future document volumes and compare to benchmarks provided by Ariba and existing commercial arrangements; - estimate number of vendors/users who will need to access ECC; - leverage BCH IT as required to engage in commercial discussions with SAP.
Missing data elements in SCA/BW data model to meet SCA reporting 90 requirements	30. Mitigation Strategy 2019-05-28 Defined	6	2	Smith, Hugh 3 (SAP PM)	Treat (or Reduction)	Will continue to monitor development of reporting specs and data model to minimize likelihood of missing key data elements from the reporting model. Deliverable RD51 also added to provide additional understanding / review / sign-off of the BW data model.
With only one planned comprehensive test cycle (ITC2) we may fall short of 94 Q4 Gate	30. Mitigation Strategy 2019-05-29 Defined	6	3	2 Hunter, Ross	Treat (or Reduction)	Start of ITC2 will be delayed by roughly 4 to 6 weeks while propject ensures entry critera are met. This will will reduce the likelihood of ITC2 not executing effectively. Residual risk remains that ITC2 timeline may need to be extended to fully achieve defined exit criteria. Updated approach presented to Steering Committee Oct 4, 2019.

ID Title	Current Created Status	Risk Score Impact	Likelihood Risk Owner	Treatment Strategy	Risk Response/Mitigation
					1. Data team completes initial loads in S07/SD7.
					Determine the conversion window within the cutover window (based on how long all of the other tasks in the cutover plan take).
					3. Extrapolate performance in S07/SD7 to better determine impact and probability of risk.
	30.				 Determine when in the schedule a full size environment will be available. Arrange for Basis support to monitor test runs to look for opportunities for performance
	Mitigation				improvements.
101 Performance of conversion during cutover weekend	Strategy 2019-06-21 Defined	6	2 3 Hunter, Ross	Treat (or Reduction)	Determine when a full size environment will be available for performance testing conversion and advance this schedule if determined necessary by any of the tasks above.
101 Fenomance of conversion during cutover weekend	30.	0	2 5 Hunter, 1035	Reduction	Project to review technology implications of moving forward with current SCA design or look at
	Mitigation			Treat (or	other optrions.
103 Existing Contractor Portal Technology Version	Strategy 2019-07-24 Defined	6	2 3 Barnard, Tys	Treat (or Reduction)	Risk has materially passed. Plan established with sustainment group as to how to proceed with contractor portal development.
					Updated impact assessment completed in Design Stage confirmed there is not likely to be any significant change to union roles or job descriptions as a result of the project. Will keep risk open
	30.				and continue to monitor as impacts to specific roles continue to be detailed through Realization.
	Mitigation Strategy		Johnson,	Treat (or	Impacted roles will be reviewed as part of the Transition Planning effort via the Transition Planning Teams. HR representation will be on the teams to lead any effort to communicate with the union
26 Potential impact to union roles / job descriptions as a result of the project	2018-02-26 Defined	4	2 2 Valerie	Reduction)	and make updates to Job Descriptions.
	30. Mitigation				This risk could be mitigated by a combination of terminate & treat, ensuring all required data is
Level of continued support for scheduled and ad-hoc excel exports on SCA	Strategy		Setiawan,	Terminate (or	captured in ECC, SharePoint, etc and extracted to the BW with appropriate end user tools or an IT
34 data in Passport & SAP	2018-05-01 Defined 30.	4	2 2 Ben	Avoidance)	support model for ensuring access to the data when needed.
	Mitigation				SCA project will ask for a freeze of the Pre-Prod environment to ensure other projects are not going
	Strategy			Treat (or	live at the same time or impacting SCA. This will greatly reduce the risk of other non-SCA changes
46 SCA Regression Testing not final testing cycle	2018-05-29 Defined 30.	4	2 2 Rico, lvette	Reduction)	impacting SCA after IT Cycle testing where current non-SCA regression testing is planned.
	Mitigation				
82 Inefficient Partner Assignment if System Performance is Poor	Strategy 2019-03-24 Defined	4	2 2 Barnard, Tys	Treat (or Reduction)	Ensure system performance is enough to prevent bottlenecks such as this one.
	30.				
SCA project depends on HR mini master for contractors being loaded	Mitigation Strategy		Setiawan,	Tolerate (or	
87 through systainment	2019-04-16 Defined	4	2 2 Ben	Acceptance)	Monitor.
	30. Mitigation				Will continue to monitor if proposed solution causes significant issues for the business.
	Strategy			Tolerate (or	Although it wouldn't be ideal. The current LSMW can update values on Service Masters. It would
74 No Mass Upload Tool for Updating Material Group on Service Masters	2018-12-14 Defined	3	1 3 Wong, Brian	Acceptance)	require a request to IT to make a mass change. But it could be done.
					Validate the 4 week training assumption with the detailed course schedule.
	22				[Update: new schedule contains 5 weeks of training delivery. Final schedule to be validated]
	30. Mitigation				Update 2: new schedule has been approved by Steering Committee, which includes 5 weeks of pre- Go Live end user training
	Strategy	-		Treat (or	Assessing option to reduce pre-golive training and focus on core activities only. Planning to be
95 Pre go-live training cannot be conducted in the planned 4 weeks	2019-05-29 Defined	2	2 1 Watt, Daniel	Reduction) Terminate (or	completed by mid-October 2019. Service masters and use in services will be determined in purchasing workshops, currently mitigating
12 Extent of use of Service Masters and Services in Design	2018-02-05 40. Closed	16	4 4 Trask, Jon	Avoidance)	other service related risks through elevation and visibility.
			Buehner,	Tolerate (or	Activity focus on critical path activities leading towards Playback and Extend Design duration for 2 weeks to allow completion at current high intensity
41 Schedule/Quality Risk not to make to Playback in time/quality	2018-05-17 40. Closed	16	4 4 Carsten	Acceptance)	·····,
RICEFWU exceeds baseline estimates. Reduction of objects may impact 44 solution design	2018-05-22 40. Closed	16	4 4 Shivii, Zaheer	Treat (or Reduction)	Risk has passed. RICEFWU scope confirmed.
			Buehner,	Tolerate (or	
25 BC Hydro Dashboard tool running out of support and not user friendly	2018-02-26 40. Closed	15	3 5 Carsten	Acceptance)	The mandate for the project is not to change existing BC Hydro reporting tools and strategy Kiernan, Nicole and Hanif will get the right people from Category management and IT to identify all
					possibilities of expediting the sourcing process in related areas.
	2040 44 65 42 51		Dixon,	Tolerate (or	Plan B: Start the design based on current supplier (Compugen) and twist it later on once the real
66 IT sourcing award in June 2019 conficts with SCA schedule	2018-11-06 40. Closed	15	3 5 Kiernan	Acceptance)	supplier is confirmed.

	Curre					Treatment	
ID Title	Created Status	Risk Score	Impact	Likelihood	d Risk Owner	Strategy	Risk Response/Mitigation Close design decisions
							Ramp up build throughput (capacity, collaboration across teams)
							Other mitigating actions: PwC visit to offshore office to manage delivery closer. Re-planning exercise
						Terminate (or	going on now to include CRs and forecast which objects will be completed by Jul 19 and which will not be ready for Jul 29 (official start of ITC1)
93 Technical build not completed before ITC1	2019-05-29 40. Cl	osed 15		3	5 Hunter, Ross	•	
					Dixon,	Treat (or	
98 Ariba Timeline	2019-05-29 40. Cl	osed 15	;	3	5 Kiernan	Reduction)	Escalated to issue 75 as items not delivered per schedule. Wayne has weekly meeting with Design Group; update meeting was conducted with Field
13 Meaningful engagement of Business before Workshops	2018-02-05 40. Cl	osed 12		3	4 Trask, Jon	Tolerate (or Acceptance)	operations group steering committee; conversations had to elevate with working group members (PCM & Generation); ongoing involvement with SME's by teams; regular bi-weekly working group meeting; 2 cycle workshop methodology with mini-playbacks and playbacks; change management team involvement in sessions
	2010 02 05 10101			<u> </u>	1 11458,9011	/ leeptuneey	Identify that scope does not include replacement of SCW, workshops must consider interface or
							integration in solution. We will not replace SCW with SAP/Ariba.
21 SCW and SCA Scope	2018-02-20 40. Cl	osed 12		3	4 Trask, Jon	Treat (or Reduction)	Specific workshops in scheduled in Cycle 2 to review and develop solution for how SCW Ariba and ECC interact.
21 SCW and SCA Scope	2018-02-20 40. Ci	12		3	4 Trask, JOH	Reduction)	ECC Interact.
							Clarification of scope in Leads meeting, workshops to consider implications of unifier in SAP design
							Specific workshops in scheduled in Cycle 2 to review and develop solution how projects related
						Treat (or	contracts will be managed going forward between ECC, SCW and Unifier (decommissioning of
22 Unifier and SCA Scope	2018-02-20 40. Cl	osed 12		3	4 Trask, Jon	Reduction)	Unifier being contemplated)
							Work with IT DMO team to get early SCA project get up in existing 11 yearsion and stay in
					Charbonneau	Terminate (or	Work with IT PMO team to get early SCA project set up in existing 11.x version and stay in communication with them on status of 12.x upgrade. Investigate plan B to determine if
27 Test Tool version, schedule and support dependant on BCH IT PMO team	2018-02-28 40. Cl	sed 12		3	4 , Kim	Avoidance)	implementing stand-alone SCA HP ALM is feasible and Plan C to stay on v11.x and not upgrade.
					Smith, Hugh	Treat (or	The project will continue to monitor. Consider elevating one of the Business Solution Leads to take
28 BCH Business Lead playing dual roles on the project (old risk 77)	2018-02-28 40. Cl	osed 12		4	3 (SAP PM) Buehner,	Reduction) Treat (or	on some of the Business Lead role. Extend Design duration further (1-2 weeks) to allow for some relief on intensity
42 Resource Risk related to extended high work intensity	2018-05-17 40. Cl	osed 12	1	4	3 Carsten	Reduction)	
					Jongeneel,	Tolerate (or	Explore impact on allowing multiple network headers - in particular for potential risk with the P6
60 PS Single Network Header Usage	2018-10-18 40. Cl	osed 12		3	4 Fred Gupta,	Acceptance) Treat (or	and BW interfaces as well as change impact for end users. Immediate next step is to assess the impact and come up with a mitigation strategy
65 BW migration on HANA may result in impact to SCA reporting development	2018-11-02 40. Cl	osed 12	1	3	4 Abhinav	Reduction)	infineurate next step is to assess the impact and come up with a mitigation strategy
						Tolerate (or	
68 Functional Team Resource Constraints for BW Reports	2018-11-21 40. Cl	osed 12		3	4 Rico, Ivette	Acceptance)	Risk has passed.
L3 Process Review time is taking longer than expected, impacting project 75 schedule	2019-01-16 40. Cl	osed 12	<u>.</u>	3	Brandes, 4 Michael	Treat (or Reduction)	Darren is scheduling meetings this week for MMQ to clarify requirements including finance for repair and refurbishment. Wayne is bringing in some additional Distribution business resources to assist with the review and approval of Distribution flows. Stations flows have been sent to SWPE project for feedback. Plan still needed for other business areas which are outstanding (e.g. T lines).
More time and effort to be involved in 'Puchasing Tax Determination' 77 solution design	2019-02-07 40. Cl	osed 10)	2	5 Yang, Robbin	,	The system will be design to determine PO Tax code as accurate as possible based on the tax indicator on vendor, plant, and material master/service master/material group. The system will display a warning on PO creation/change if the PO belongs to generation plants so the user can check the tax code and enter the right one. See Decision#117.
Requirements for approvals design may not be fully reflected in the current 102 design	2019-06-28 40. Cl	osed 10)	2	5 Shivji, Zaheer	Treat (or Reduction)	Escalated to CR 163
					Luna,	Tolerate (or	Risk has now passed. Schedule extended per Steering Committee approval (PLCN's 27, 28, and 29)
14 Quality Impact due to Agressive Schedule	2018-02-08 40. Cl	osed g		3	3 Leonardo	Acceptance)	to resolve resulting quality impacts of aggressive schedule.
23 Aggresive schedule of Design Stage	2018-02-22 40. Cl	osed S)	3	Smith, Hugh 3 (SAP PM)	Treat (or Reduction)	Ensure progress tracking and management processes in place. Use escalation processes as needed to resolve any issues / delays that may arise. Schedule extended per Steering Committee approval to reduce workload on team and allow time for deliverable quality.
29 Inability to properly limit access to supply chain information	2018-03-19 40. Cl	sed S		3	Simpson, 3 George	Treat (or Reduction)	Risk has passed.
				-	Gupta,	Treat (or	Develop approach to decide on appropriate user experience and decision approach with Working
32 Extent of Fiori (or similar) user interface ehancement required	2018-04-27 40. Cl	osed g)	3	3 Abhinav	Reduction)	Group.

	Current				Treatment	
ID Title Lack of clarity / pre-socilaization with Working Group on design approval	Created Status	Risk Score Impact		Risk Owner	Treat (or	Risk Response/Mitigation To conduct sessions with WG during May to present C2 Playback Methodology, present Approval Flow and Deliverables Templates (Integrated Design Report). Update June 04 - WG session scheduled June 06. Risk has passed. Additional session completed to enable successful completion of Playback and approval of the IDR.
35 process may slow approval timing	2018-05-04 40. Closed	9	3	3 Yang, Robbin	Reduction)	
Impact of the Passport mechanism for Average Unit Pricing calculation 45 versus the SAP Moving Average Pricing	2018-05-22 40. Closed	9	3	Martell, 3 Wayne	Treat (or Reduction)	Technical and Functional Team will be assembled to run Use Case simulations between SAP and the Passport to validate the impacts, magnitude of change, configuration options and prepare a findings report that will be assessed by BCH to assess the risk and next actions.
Plan to use the data leads as the project cutover leads not BC Hydro's 49 standard approach	2018-06-07 40. Closed	9	3	Praveen, 3 Roch	Treat (or Reduction)	Risk has passed. Plan has been updated such that the Integration Manager will transition into the role of cutover lead.
Solutioning for IT will extend beyond Design for Telus TSR replacement	2010/00/07/40.00304	5		Luna,	Treat (or	Additional review sessions held with IT to confirm solution meets additional requirements. Risk has
51 project	2018-06-15 40. Closed	9	3	3 Leonardo	Reduction)	passed. Project team preparing various scenarios for review with Steering Committee. Continue to work
57 Overall project budget may exceed upper bound cost estimate of 79.3M	2018-08-14 40. Closed	9	3	Smith, Hugh 3 (SAP PM)	Treat (or Reduction)	through detailed project plans with PwC to confirm project estimates. Process completed and cost estimates aligned.
Plans for data conversion, data clean-up and data creation not fully detailed 58 as of the end of Design Stage Records Managements requirement might require more complex technical 70 solution	2018-10-02 40. Closed			Turnbull, 3 Greg 3 Rico, Ivette	Treat (or Reduction) Treat (or Reduction)	High level plan for developing a plan: - Facilitate series of conversion workshops with functional and business teams with the objective to document the approach for each object and uncover hidden assumptions [COMPLETE] - Present high level approach for each object as a slide (for working group signoff in place of approving DTO) [COMPLETE] - Develop conversion estimates, schedule, and resource plan for approved scope. [COMPLETE] - Identify data quality issues that impact the project based on the approved conversion scope. [COMPLETE] - In consultation with the business develop data remediation plans for issues impacting the project - plan exists - approval from accountable WG members in in progress [IN PROGRESS] Most current data prep items (>75% by record count) will be reviewed with the accountable WG member by the end of the month. Initial dashboard showing progress against data prep items will be published by the end of Jan, as originally communicated to WG. Once the dashboard is published and work is underway this risk should be closed. Risk has passed.
	2016-11-22 40. Closed	E	3		· ·	 Review of targeted areas of the design by Senior Procurement Manager (Rob Dodman) during March and April Design walk-through sessions with Rob Dodman, Linda Beardsell, Maryna, Zaheer and Purchasing team held on April 12, April 26 & May 3 Review of Purc decisions at the Open design workshops with the broader SCA team Integrated L3 review sessions with the broader SCA team
The design of Purchasing solution in not clearly understood by different 79 stakeholders involved	2019-03-06 40. Closed	9	3	Korsei, 3 Maryna	Treat (or Reduction)	 Involvement of the Business Lead, and external stakeholders (e.g. Linda) into the design or implementation issues as required.
				Garsault,	Treat (or	Possible mitigation options, individual or combined: Keep process as-is: SES approvers will be responsible of catching double-entries - this is the whole point of the SES approval process. CON: approvers may not be able to catch this unless they're aware of what has been entered so far. Business areas should be responsible of running reports, such as the ME2S-Planned/Actual Comparison, to check their planned versus actual charges, and do a check for duplicates. CON: It is after the fact, it is unlikely business areas will run this, and if a duplicate is found, it will require reversal efforts. Ask suppliers to always provide a unique reference number in their entry sheets, entered by them or submitted to a BCH administrator via email, and add a custom validation in the SES process to issue an error or a warning. CON: additional custom development, and suppliers can easily ignore this rule. Create an automatic notification to the SES creators and approves when similar SES entries exist in the system. CON: Duplicate check rules would not be 100% reliable and
91 Overpayment due to Duplicate Service Entry Sheets	2019-05-28 40. Closed	9	3	3 Olivier	Reduction)	could become a nuisance.

D Title	Current Created Status	Risk Score Impact	Likelihood	d Risk Owner	Treatment Strategy	Risk Response/Mitigation
						SCA will support MRO target state (process and roles) with a set of solutions as outlined below.
						 A. Clarity has been established regarding target business process for MRO materials. Anticipated future state is based on the process currently piloted in Vernon (referred as 'MRO Pilot') and assumes the following: 1) Field Store keeper will manage MRO materials for all BC Hydro organization, ordering from MRO Supplier directly as required: to maintain a standard compliment of materials "On Hand" [so-called 'Working Stock MRO'], while onon-standard items will be ordered "On Demand" on behalf of requestors (multiple business users). A back office "cost allocation" would happen via JV cost allocation process afterwards. 2) Materials will be delivered by MRO supplier directly to the Field Store.
					Treat (or	 B. Upon such clarifications provided by the Category Management, the following SCA solutions were discussed and deemed to be optimal in order to support future management of MRO materials: 1) Ordering: • A range of standard ECC purchasing channels (PO, Non-PO invoices, Framework PO) will support transactional activities in ECC for MRO and will provide certain flexibility to accommodate: anticipated MRO business processes as per MRO Pilot' initiative and ordering model established under potential future contract in Q4 F19 -Q1 F20 (upon RFP completion) • Ariba Punch-out catalogues will support ordering activities with Vendor catalogues integrated into ECC. This will allow F5 Keepers to replenish MRO materials stock at the Field Store or satisfy ad-hoc requirements by leveraging supplier online catalogues through ECC instead of placing orders via phone or by logging into the supplier's website. • If non-PO channel is chosen, ability to pay with the credit card will remain post SCA Go-Live (currently MRO is paid mostly by the credit card)
38 No Solution for MRO	2018-05-14 40. Closed	8	2	4 Yang, Robbin		2) Receiving:
Unexpected Project Costs from Implementation of Online Catalogues via 39 Ariba	2018-05-14 40. Closed	8	2	4 Shivji, Zaheer	Treat (or Reduction)	Risk has passed. Use of Ariba confirmed and consistent with project budget.
69 BW Rework and New Reports Post SCA Go Live Ariba-Advance Ship Notice enhancement needed if MMQ needs Deliveries	2018-11-21 40. Closed	8		4 Rico, Ivette Gebert,	Treat (or Reduction) Tolerate (or	After completing the Reporting Requirements review we will evaluate the priorities and work only on "Must have" reports (Priority 1 and 2) to reduce potential rework after Go Live. Setup interfaces as per current approach (no issues), and if MMQ later decides to make inbound deliveries relevant for picking, we'll investigate where it breaks and how we can resolve the issue. In the meantime, we'll also ask Ariba to explain why the deliveries must be set as not relevant for picking for the ASN interface to work.
78 to be Picking Relevant	2019-02-22 40. Closed	8	2	4 Darren	Acceptance)	MMQ BSL is currently in conversation with the Proposal lead and will be listed as optional attendee
81 Customer Build Program - BCH provides Materials to ESPs directly	2019-03-20 40. Closed	8	2	Gebert, 4 Darren	Treat (or Reduction)	on all upcoming proposal review/assessment meetings. Complete initial rough assessment of proposal's impact to current SCA design/solutions
Realization of benefit of improved inventory turns may be impacted by poor 86 scheduling compliance	2019-03-29 40. Closed	8	2	Sveinson, 4 Laurie	Treat (or Reduction)	Item identified will be addressed through Communications, Training, Key Actions and the Sustainment Plan.
Training Risk - "Train the BCH Trainer" Effectiveness for Demand/MRP	2010 05 10 40 Closed	0	2	Gebert,	Treat (or	Continued Knowledge Transfer
100 Related Solutions 9 Ability to identify and confirm Business SME's for planned Kick-Off	2019-06-18 40. Closed 2018-01-29 40. Closed	6		4 Darren 3 Shivji, Zaheer		Confirmed Course Outline and Delivery Approach PMO considered options and impacts and collectively moved the Kick-Off to 29 Jan 2018.
Scope Risk related to potential increase of MDG with impact on MDG and 17 broader System Integration Scope	2018-02-16 40. Closed	6	2	Schellekens, 3 Harold	Terminate (or Avoidance)	Initial investigations underway, focus topic in Design
24 CDC - Central Distribution Center Decision is made but not implemented yet	2018-02-18 40. Closed	6		Peachey, 3 Tanya	Treat (or Reduction)	Risk has passed. Enterprise structure confirmed through Design Stage. Included in Implementation plans to deploy.
Timing risk of completing ITDSP Gate 3 approval may become bottleneck on				Schellekens,	Treat (or	Complete Gate 3 approval in two stages. Initially complete approval of as many items as possible prior to special Board meeting then plan for a follow-up approval of any outstanding items . Final Gate 3 approval will take place after the special Board meeting and after the Phase Two regulatory application has been filed. Risk has passed. Gate 3 successfully past September 13, 2018
33 Imp Phase approvals	2018-04-30 40. Closed	6	3	2 Harold	Reduction)	ahead of special Board Meeting on September 27, 2018.
40 Schedule and scope for UAT and Regression	2018-05-17 40. Closed	6	2	Charbonneau 3 , Kim Schellekens	Reduction)	Monitor Unit Testing for meeting Q-Gate for Integration Testing, monitor Integration Testing so UAT is not impacted.
47 RICEFW Tracker usage (KPMG item May 18, 2018)	2018-06-01 40. Closed	6	2	3 Harold	Reduction)	Risk has passed per KPMG Design Review Report.
Timing risk of completing ITDSP Gate 3 approval may become bottleneck on 33 Imp Phase approvals 40 Schedule and scope for UAT and Regression	2018-04-30 40. Closed 2018-05-17 40. Closed	6	3	3 Tanya Schellekens, 2 Harold Charbonneau 3 , Kim Schellekens,	Reduction) Treat (or Reduction) Treat (or Reduction) Treat (or	plans to deploy. Complete Gate 3 approval in two stages. Initially complete approval of as many item possible prior to special Board meeting then plan for a follow-up approval of any out . Final Gate 3 approval will take place after the special Board meeting and after the P regulatory application has been filed. Risk has passed. Gate 3 successfully past Septe ahead of special Board Meeting on September 27, 2018. Monitor Unit Testing for meeting Q-Gate for Integration Testing, monitor Integration is not impacted.

D Title Created Statu Risk Score Impact Likekihood Risk Score Impact Status Risk Score Risk Score Risk Score Risk Score Risk	lead review a e mutual e mutual ate directly in ints towards Ariba or not so that no hancements is the last date present to Steering lainder of F20, s part of the
Proper disposition / documentation of items within Fit / Gap log (KPMG 48 item May 18, 2018) 2018-06-01 40. Closed 6 2 3 Yang, Robbin Reduction) Risk has passed per KPMG Design Review Report Potential conflict on QM configuration/design for meters (levices) between 50 SCA and Meter Tracking (MTS) projects during realization phase 2018-06-13 40. Closed 6 2 3 Rico, Vette Reduction) Impacts S. SQL projects to continue to coordinate timing and activities to minimi 61 QM key User Availability during Realization Phase 2018-10-22 40. Closed 6 2 3 Rico, Vette Reduction) PMO: Business has agreed to assign multiple part time resources. 50 SCA and Meter Tracking (MTS) projects during realization phase 2018-10-22 40. Closed 6 2 3 Rico, Vette Reduction) PMO: Business has agreed to assign multiple part time resources. 51 QM key User Availability during Realization Phase 2018-10-22 40. Closed 6 2 3 Rico, Vette Reduction) PMO: Business has agreed to assign multiple part time resources. 52 SCA and Meter Tracking (MTS) projects during realization phase 2018-10-22 40. Closed 6 2 3 Rico, Vette Reduction) PMO: Business has agreed to assign multiple part time resources. 53 Sign Additional BW met new requirements, could introduce additional scope for 24 A/P workload may increase as a result of the future Ariba scope 2018-10-29 40. Closed 6 2 3 Michael Reduction) Reduction Precision Sign Additional BW met new requirements, could introduce additional scope for 24 Could meter deve requirements, could introduce additional scope for 24 Could meter deve requirements, could introduce additional scope for 24 A/P workload may increase as a result of the future Ariba scope 2018-11-22 40. Closed 6 2 3 Michael Reduction Additional BW met new requirements, could introduce additional scope for 24 Could meter deve requirements, could introduce additional scope for 24 Could meter deve requirements and RM 22 per song reduction Proposed mitigation activities for Trans RM 22 per song reduction Sign Proved by Dec. 14th - this 24 Revelopm	lead review a e mutual e mutual ate directly in ints towards Ariba or not so that no hancements is the last date present to Steering lainder of F20, s part of the
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48 item May 18, 2018) 2018-06-01 40. Closed 6 2 3 Yang, Robbin Reduction Risk has passed per KPMG Design Review Report Potential conflict on QM configuration/design for meters (devices) between 50 SCA and Meter Tracking (MTS) projects during realization phase 2018-06-13 40. Closed 6 2 3 Rico, Ivette Related to risk 30. Projects to continue to coordinate timing and activities to minimi impacts. SCA project takes priority in case of significant conflict. 61 QM Key User Availability during Realization Phase 2018-10-22 40. Closed 6 2 3 Rico, Ivette Reduction PMCB business has agreed to assible by-Allow A/P to enter the Artha start CECCD on trake this an MDG field that uril require a CRIMID the system enhance the automation of the Ariba-vendor setup (e.g. automatically detect when a vendor using the Ariba setu deliving the Ariba setu deliving vendor setup (as municity) and configuration is needed (e.g. setup general output conditions that et automation of the Ariba-vendors). 64 A/P workload may increase as a result of the future Ariba scope 2018-10-29 40. Closed 6 2 3 Leonardo Reduction) will oonfirm the requirements, would be to get all specs. For MM2 approved by Dec. 14th - this automation consignet will mater device approved with CRS 72 development targets 2018-12-07 40. Closed 6 2 3 Michael Reduction) Por Sould intrake the changes braft way through a fiscal year, for the rea accept that this risk will material for magenes	ate directly in ints towards Ariba or not so that no so
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61 QM Key User Availability during Realization Phase 2018-10-22 40. Closed 6 2 3 Rico, Nette Reduction PMO: Business has agreed to assign multiple part time resources . 64 A/P workload may increase as a result of the future Ariba scope 2018-10-29 40. Closed 6 2 3 Leonardo Reduction PMO: Business has agreed to assign multiple part time resources . 64 A/P workload may increase as a result of the future Ariba scope 2018-10-29 40. Closed 6 2 3 Leonardo Reduction wendor-specific configuration is needed (e.g. automatically detect when a vendor using the Ariba start date)Adjuist the ariba sconfiguration is needed (e.g. automatically detect when a vendor using the Ariba start date)Adjuist the ariba sconfiguration is needed (e.g. automatically detect when a vendor using the Ariba start date)Adjuist the ariba sconfiguration in ECC as generic as possible vendor-specific configuration is needed (e.g. automatically detect when a vendor using the Ariba sconfiguration in ECC as generic as possible vendor-specific configuration is needed (e.g. automatically detect when a vendor using the Ariba sconfiguration in ECC as generic as possible vendor-specific configuration is needed (e.g. automatically detect when a vendor using the Ariba sconfiguration is needed (e.g. automatically detect when a vendor using the Ariba sconfiguration is needed (e.g. automatically detect when a vendor using the Ariba sconfiguration is needed (e.g. automatically detect when a vendor using the Ariba sconfiguration is needed (e.g. automatically detect when a vendor using the Ariba sconfiguration is neet	Ints towards Ariba or not so that no nancements the last date present to Steering hainder of F20, s part of the
61 QM Key User Availability during Realization Phase 2018-10-22 40. Closed 6 2 3 Rico, Ivette Reduction PMO: Business has agreed to assign multiple part time resources. 64 A/P workload may increase as a result of the future Ariba scope 2018-10-29 40. Closed 6 2 3 Leonardo Reduction Freat (or verdor-specific configuration is needed (e.g. setup general output conditions that ere using the Ariba start date)Adjust the Ariba scope (e.g. setup general output conditions that ere using the Ariba start date)Adjust the Ariba scope (e.g. setup general output conditions that ere using the Ariba start date)Adjust the Ariba scope (e.g. setup general output conditions that ere using the Ariba start date)Adjust the Ariba scope (e.g. setup general output conditions that ere using the Ariba start date)Adjust the Ariba scope (e.g. setup general output conditions that ere using the Ariba scope setup ageneral output conditions that ere using the Ariba scope (e.g. setup general output conditions that ere using the Ariba scope and to perfect configuration is needed (e.g. setup general output conditions that ere additional Stope for the requirements, could introduce additional scope for Treat (or Freat (or Proposed mitigation would be to get all specs. for KM2 approved by Dec. 14th - this 72 development targets 2018-12-07 40. Closed 6 2 3 Michael Reduction Freat (or Freat (or Freat (or Freat (or Summarize the changes that T-Lines would need to make to	Ints towards Ariba or not so that no nancements the last date present to Steering hainder of F20, s part of the
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Project team summarizing list of inputs required from Finance, along with estimate of timing.	
	effort and
Treat (or Project team will work with Finance Directors to identify resource(s) for each activity	
85 Loss of knowledge continuity due to illness of Finance Lead 2019-03-27 40. Closed 6 2 3 Shivji, Zaheer Reduction) Andrea Ling has transiitoned into the role to provide suport in Maria's absence.	c
Peachey, Treat (or	
92 Detailed design is not completed by April 29th 2019-05-29 40. Closed 6 2 3 Tanya Reduction)	
Risk has materially passed. Project continues to work to updated timeline for compl	
96 Quality Issues (incl. design) may show up in ITC1 2019-05-29 40. Closed 6 3 2 Hunter, Ross Reduction) logged, no signicant design gaps were identified.	esign items
96 Quality Issues (incl. design) may show up in ITC1 2019-05-29 40. Closed 6 3 2 Hunter, Ross Reduction) logged, no signicant design gaps were identified.	
Treat (or Risk has passed. Reviewed proposed detailed design with key stakeholders and cont	med that
99 Inability to sufficiently restrict access to Supply Chain data in BW 2019-05-31 40. Closed 6 3 2 Shivji, Zaheer Reduction) approoach is acceptable. CR 176 logged to track addition of new auth objects to cor	rol table.
Treat (or	
10 BCH Work Management Business Lead not committed full time yet 2018-01-29 40. Closed 4 2 2 Shivji, Zaheer Reduction) Confirm the status and pending outcomes with Leadership.	
Seek Executive approval to proceed with some Implementation Phase activities ahea	of receiving
the BCUC decision / approval of Implementation Phase funding, assuming there is a	
confidence that a positive decision will be received. Approach approved by ET April	
Board resolution approved Sept 27, 2018 to allow project to begin Imp activities with	
Start of Implementation Phase may be delayed due to phase funding Smith, Hugh Treat (or Residual risk now past as the commission has issued its decision on the Implementation	
Is approval delay 2018-02-15 40. Closed 4 4 1 (SAP PM) Reduction funding.	i nuse
Introductory meeting held between SCA and OIP project management offices in Oct Introductory meeting held between SCA and OIP project management offices in Oct	
Regular touchpoints arranged between SCA and OIP Business Leads, Solution Leads a Managers. Will continue to monitor key decisions to identify areas of overlap or con	-
managers. Win containe to monitor key decisions to mentiny areas of overlap of con	
Previous mitigation plan (pre Oct 2018): Confirmed approach that SCA is priority over	potentially
Smith, Hugh Treat (or conflicting project plans between the projects. Senior Operations representative inv	
18 Other Project Risk: Operations Integration Program 2018-02-19 40. Closed 4 2 2 (SAP PM) Reduction) Operating Model added to the SCA Working Group to ensure alignment of future sta	e designs.

BC Hydro Supply Chain Applications Project

D Title	Current Created Status			L Diele Owner	Treatment	
D Inte	Created Status	Risk Score Impact	Likelihoo	d Risk Owner	Strategy	Risk Response/Mitigation Regular communications between CLRA and SCA projects. Interim SCA Tech PM to move to
19 Other project risk: CLRA VMS development and timing risk	2018-02-19 40. Closed	4	2	2 Rico, Ivette	Treat (or Reduction)	managing the CLRA VMS project. Sustainment specialist working part time on both projects to ensure alignment of design and timing.
31 Access to historic PDW for Supply Chain Reports	2018-04-25 40. Closed	4	2	Setiawan, 2 Ben	Terminate (or Avoidance)	Current PDW reports will continue to operate for some period post go live while users are transitioned to new SAP and BW reports. Custom reports to be developed post SCA go-live to replace "copy" of PassPort system utilized for supply chain historical data access.
52 Absence of Overall Plan and Owner for Material/Service Group	2018-04-25 40. Closed	4	2	Peachey, 2 Tanya	Treat (or Reduction)	Risk has materially passed. Resource has been assigned to complete design process. Will continue to monitor for initial months of Realization.
	2010 00 13 101 0.0104		L	2 101170	liculation	Assign a single owner from the SCA project who will be accountable for building an overall plan that includes all impacted activities, groups and objects, with a clear timeline and identification of critical path.
53 Absence of Overall Plan and Owner for Service Master	2018-06-19 40. Closed	4	2	Peachey, 2 Tanya	Treat (or Reduction)	Risk materially passed. Tania Cernezel assigned to complete this activity. Will continue to monitor through early Realization phase.
Tions is decise to full-used; through integrated process decises (KDMS item				Doothou	Teat for	 Internal team end-to-end L3 reviews late November: I will work with the BAs to organize sessions to walk through the process flows end to end with their own team members to ensure the proper Security Roles (RDD) are noted in the swim lanes, RICEFWU are noted where relevant, process steps and sequence are correct and the steps are understood by the team and ready to be incorporated into PDD, test scripts and training materials. They will also validate that inputs/outputs to other team L3 flows are consistently connected Integrated team end-to-end L3 reviews in February: integration team will select a set of integrated process flows to review in cross team sessions over several days to ensure integration between process maps is reviewed Additional Integrated L3 essions held in May 2019 as part of the Open Design closure sessions. Team feels key touch points have been reviewed and further sessions in advance of integration testing are not required. Integration test scripts will be created which test processes end-to-end and by their very nature will test cross team processes, inputs and outputs Will also be setting up a regular "integration" touch base meeting with the BAs to make sure they are aligned, integrated and producing consistent Process deliverables.
Time in design to fully work through integrated process designs (KPMG item 54 June 15)	2018-06-22 40. Closed	4	2	Peachey, 2 Tanya	Treat (or Reduction)	Risk has now passed. All review activities completed successfully.
				Ortega cardenas,	Tolerate (or	
59 Material Master MDRS additional activities planned to be finished by Oct 26	2018-10-13 40. Closed	4	1	4 Mario	Acceptance)	Close follow up on decision making and MDRS Documentation
62 Demand Management / MRP Consultant is required	2018-10-23 40. Closed	4	2	Brandes, 2 Michael	Treat (or Reduction)	Currently MRP / Demand Management Activities and Master Data has been split among different members of the teams in order to perform baseline configuration.
Data team resource plan may be insufficent towards the end of the project	2010 10 25 40. 010300		2	Brandes,	Tolerate (or	No immediate action will be taken to mitigate this risk. Risk will be re-evaluated closer to ITC1 when
73 risking quality and schedule	2018-12-13 40. Closed	4	2	2 Michael	Acceptance)	the resourcing of the Data team is expected to change.
BW loads taken 10 to 12 hour today. 60% additional load is coming because 36 of SCA	2018-05-10 40. Closed	3	1	Cachero, 3 Wendy	Treat (or Reduction)	To be tested through system performance testing per current plan and resolved as required.
					Treat (or	
11 ECC SAP Access to Prep for SAP 101 Demo	2018-01-29 40. Closed	2	1	2 Trask, Jon	Reduction)	Assign Access to SAP Sandbox for Functional Consultants within 5 Days.
User interface for entering materials from Outline Agreement might not be	60. Updates	6	2	Setiawan, 3 Ben	Treat (or Reduction)	To be tracked through engagement and BAR activities. Will be logged as a CR if raised as a concern by users.
104 acceptable for end users Scope Risk related to potential increase of Ariba use with impact on Unifier	2019-09-10 Required	0	2	Schellekens,	Terminate (or	Duplicate. Risk cancelled.
16 and SC Workspace (closed as duplicate)	2018-02-16 70. Cancelle	d 12	4	3 Harold Praveen,	Avoidance) Treat (or	Dupricate. Nisk cancened.
55 Data conversion scope risk related to other BCH projects (business or IT)	2018-06-27 70. Cancelle	d 9	3	3 Roch	Reduction)	Duplicate of risk 30
						Mitigations overlap with risk 52 and 53 (which are more immediate). Will cancel this risk and track through those items. The Purchasing and Contracts Team, Data Team and the various Business Teams(SME's) have to develop: - Standards/Display format (E.g. Taxonomy, Upper Case/ Lower Case or mixture of both) for the Required and Optional fields on the Service Master - Material/Service Groups - The list of Service masters to be uploaded for Go-Live
Unrealized Benefits & Procurement Inefficiencies due to Missing Service 43 Master Standards	2018-05-21 70. Cancelle	d 6	2	Praveen, 3 Roch	Treat (or Reduction)	- Service Master upload tools for Go-Live - A Service Master maintenance process for the Sustainment team

Γ			Current					Treatment	
	D Title	Created	Status	Risk Score	Impact	Likelihood	Risk Owner	Strategy	Risk Response/Mitigation
									The general topic of CLRA and SCA has been discussed for a long time, and is well known. There
									have been meetings with CLRA team and Robbin Yang, and CLRA team and Leo/Kiernan/Anurag.
							Schellekens,	Treat (or	This coordination and collaboration needs to continue into the level of detail that is now available
	56 SCA Project Delays due to CLRA Deliverables	2018-06-30	70. Cancelled	4		2 :	2 Harold	Reduction)	for both projects as they near DEF completion.



BC Hydro Supply Chain Applications Project

Progress Report No. 1

Appendix D

Project Schedule

ID	0	% Complete	Task Name	Start	2019 Qtr 1 Jan Feb Mar	2019 Qtr 2 201 Apr May Jun Jun	-	2019 Qtr 4 Oct Nov
1		71%	Realization	Mon 19-04-01				
2	_	0%	SCA Realization Phase	Mon 19-04-01				
4	~	100%	Solution Definition (PFD, Security, FSD)	Mon 19-04-01				
11		94%	Solution Development (Development, FUT)	Mon 19-04-01				
12		92%	Material Management & Quality	Mon 19-04-01				
13		97%	Purchasing & Contracts	Mon 19-04-01				
14		92%	Work Management Integration	Mon 19-04-01)		
15	✓	100%	Projects Integration	Mon 19-04-01				
16	~	100%	Master Data Governance	Mon 19-04-01				
17		85%	Ariba	Mon 19-04-01)		
18		0%	As-Built Solution Documentation	Mon 19-09-30				
19		0%	Material Management & Quality	Mon 19-09-30				
20		0%	Purchasing & Contracts	Mon 19-09-30				
21		0%	Work Management Integration	Mon 19-09-30				
22		0%	Projects Integration	Mon 19-09-30				
23		0%	Master Data Governance	Mon 19-09-30				
24		0%	Ariba	Mon 19-09-30				
25		88%	Reporting	Fri 19-05-10				
26		95%	Reporting Definition	Fri 19-05-10				
27		84%	Reporting Development	Wed 19-06-05				
28		88%	Back end Development	Wed 19-06-05				
29		62%	Front end Development	Mon 19-09-02				
30		99%	Data	Mon 19-04-01				
			Task Project Summary	Duration-or		External Tasks		Progre
-	ct: SC v		Split Inactive Task Inactive Milestone	Manual Sur Manual Sur	mmary Rollup	External Milestone Deadline	↓	Manua Slippa
Date:	Thu 19	9-10-10	Summary Inactive Summary	Start-only		Critical	×	
			Summary Progress Manual Task	Finish-only	3	Critical Split		
					Page 1			

BC Hydro Supply Chain Applications Project

								 		A	pp	end	dix	c D)	
4			202	20 Q	tr 1		1	2020 (Qţr	2			20)20	Qtr 3	3
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D	0	% Complete	Task Name	Start	2019 Qtr 1 Jan Feb Mar	2019 Qtr 2 Apr May Jun	2019 Qtr 3 Jul Aug Se	2019 Qtr 4 ep Oct Nov
31	 Image: A start of the start of	100%	Data Business Preparation & Conversion Readiness ITC1	Mon 19-04-01				
32		95%	Data Business Preparation ITC2	Mon 19-07-29				
33	~	100%	Data Conversion Readiness ITC2	Mon 19-07-29				
34		62%	Testing	Mon 19-06-03				
35	~	100%	String Testing Development	Mon 19-06-03				
36		70%	String Testing Execution Iteration 1	Tue 19-07-02		(
37		97%	String Testing Execution Iteration 2	Mon 19-07-29				
38		80%	String Testing Execution Iteration 3	Tue 19-09-03			-	
39		87%	Integration Test Cycle 1	Mon 19-07-29				_
40		0%	Integration Test Cycle 2	Mon 19-09-23	_			+
41		78%	Change Management and Business Transformation	Mon 19-04-01	-			_
42		40%	Training Preparation (Realization)	Mon 19-07-15	_			
43		0%	Final Preparation	Mon 19-11-25				
44		0%	User Acceptance Testing	Mon 19-12-02				
45		0%	Training Preparation (Final Prep)	Mon 19-11-25				
46		0%	Training Delivery	Mon 20-01-13				
47		0%	Cutover	Mon 20-02-17				
48		0%	Target in-Service Date	Tue 20-02-18				
49		0%	Stabilization	Wed 20-02-19				
	ct: SC v		Task Project Summary Split Inactive Task Milestone Inactive Milestone	Duration-or Manual Sur Manual Sur	nmary Rollup	External Tasks External Milesto	ne 🔶	Progr Manu Slippa
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BC Hydro Supply Chain Applications Project

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