

- 1 Q. Please provide a copy of the *Reliability Plan for Hydraulic Production for 2019–2021*.
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- 4 A. Please refer to PUB-NLH-032, Attachment 1 for the Reliability Plan for Hydraulic Production
- 5 for 2019–2021.

		Improvements to documentation handover between LTAP Group and Project Execution group.	
-	Capital Program	B. Peddle	0
a		Develop a documentation completion checklist for Capital projects.	B. Peddle
b		Implement the use of newly created checklist.	B. Peddle
-	Operational Oversight		
a		Develop a Reliability Improvement Team	
b		Establish team members, leadership sponsor.	P. Winsor
-		Identify mandate for team and structure of reporting for 2019.	P. Winsor
a	Operational Oversight		
b		PI Data creating alerts in JDE	
-		Develop a plan for the implementation of PI data based condition alerts in Hydro Plants.	P. Winsor
a		Implement yearly deliverables as per PI data alerts plan.	P. Winsor
b		Begin implementation of data, based on asset criticality.	P. Winsor
c			P. Winsor
-		Temporary Changes Engineering Directive	
a		Prepare Engineering Directive.	S. Smith
b		Implementation of process for Temporary Changes through an Engineering directive using JDE Condition Alerts	S. Smith
c			S. Smith
-		Storage Program for Software, Settings, etc.	
a	Engineering Directives	Discuss with OT team options for securely storing latest software revisions (relay settings, PLC programs, module configs, etc.)	D. Cole
b		Complete inventory of data to be stored.	C. Hussey
c		Implement storage system for this data for Hydraulic Production facilities.	D. Cole
-		Forced Outage Standard Improvements	
a		Update FO Standard to reflect changes to org structure and based on 2018 audit findings.	S. Smith
b		Review compliance to Forced Outage Standard and report on findings	S. Smith
c		Review compliance to Forced Outage Standard and report on findings	S. Smith
d		Review compliance to Forced Outage Standard and report on findings	S. Smith
e		Quality Improvements to FO Investigation Process - executive summary - Quarterly reports.	S. Smith
-		Development of PM Program for Critical Spares	
a		Determine spares which require PM program	R. Willcott / D. Cole
b		Develop PM program for spares	M. Lambert / C. Ezeoru
c		Implement PM Program	M. Lambert / C. Ezeoru
-		Develop Program for Lube/Oil Storage	
a		Develop inventory of lubes and oils used on site.	R. Willcott
b		Establish labelling/storage program.	R. Willcott
-	Operational Technology		
a		Development and implementation of new FO Database	
b		Continue working with Operational Technology Team.	S. Smith
c		Complete user testing of new program	S. Smith

		Supporting Office of Asset Management with Implementation and Review of formal processes,		
	a	Asset Management Processes		
	b	Support OAM in implementation of new business processes for 2019.	x	S. Smith 0
	c	Complete review of 1 corporate business process.	x	S. Smith 0
	d	Complete review of 1 corporate business process.	x	S. Smith 0
		Dam Safety Program		
	-	Dam Safety	x	M. Luther 0
	a	Equipment Improvements		
	b	Exploits		
	a	Equipment Improvements		
	b	Finalize multi-year implementation plan for the improvement of asset data monitoring.	x	A. Martin 0
	c	Improve PI data capabilities as per 2020 portion of plan.	x	D. Cole 0
	d	Improve PI data capabilities as per 2021 portion of plan.	x	D. Cole 0
		Transformer testing/oil sampling program with TRO.		
	-		x	D. Cole 0
	a	Prepare list of assets requiring routine oil samples.	x	D. Cole 0
	b	Establish defined program for sampling with TRO resources.	x	D. Cole 0
	c	Assess effectiveness of program and adjust as required.	x	D. Cole 0
		Unit #7 Overhaul		
	-	Complete necessary governor testing and tuning as part of commissioning following unit overhaul.	x	R. Willcott 0
		Develop local IR Scanning Program in Hydro Gen		
	-	Establish IR Scanning PM Program for BDE Terminal Stations and other HG stations	x	C. Ezeoru 0
	a	Implement IR scanning program for terminal stations associated with HG Plants	x	K. Inkgen 0
	b	BDE Rough Zone Operation		
	-	Confirm bounds of BDE Units 1-7 Rough Zones	x	M. Lambert 0
	a	Have the Automatic Generation Control (AGC) adjusted as required to reflect updated rough zones.	x	S. Smith 0
	b			

