

**Appendix J - Project Risk Register - WEWPCC RAS and FW Pipe Replacement Project**

Risk Register Template Version 4.5-nwa2

System			Program Information about the Risk Event										
Risk ID; Sequential ID	Last Reviewed Date	Status Change Date	Identification Date	Project	Phase	Task Group	Contract (Bid Op)	Operational or Capital	Facility	Process Area (optional)	Discipline (Optional)	Risk Type; Program or Project Level Risk	Category of Risk; Design, Construction, HR, Procurement etc
1	4/22/2015	4/22/2015	4/22/2015	WEWPCC RAS & FW Replacement	Construction			Capital	WEWPCC			Project	
2	4/22/2015	4/22/2015	4/22/2015	WEWPCC RAS & FW Replacement	Construction			Capital	WEWPCC			Project	
3	4/22/2015	4/22/2015	4/22/2015	WEWPCC RAS & FW Replacement	Planning			Capital	WEWPCC			Project	
4	4/22/2015	4/22/2015	4/22/2015	WEWPCC RAS & FW Replacement	Construction			Capital	WEWPCC			Project	
5	4/22/2015	4/22/2015	4/22/2015	WEWPCC RAS & FW Replacement	Construction			Capital	WEWPCC			Project	
6	4/22/2015	4/22/2015	4/22/2015	WEWPCC RAS & FW Replacement	Planning/ Construction			Capital	WEWPCC			Project	
7	4/22/2015	4/22/2015	4/22/2015	WEWPCC RAS & FW Replacement	Construction			Capital	WEWPCC			Project	

Risk Event Identification						
Threat or Opportunity (T/O)	Due to (Cause Event)	this could occur (Result Event )	Resulting in (this Effect)	Threat / Opp Owner (per Agreement); CofW or Shared	Threat / Opp owner (Individual responsible)	Status (Identified / In Development / Defined / Closed)
T	Construction work (RAS) has to be done in a seasonal window	Construction and commissioning may not run to plan or construction takes longer	Delayed commissioning; potential license exceedances			
T	Want to hit 2015 winter construction season (RAS)	Design may not be ready (Consultant performance, e.g. due to over work)	Delays construction (RAS) by 12 months			
T	Want to hit 2015 winter construction season (RAS)	Length of time to award design contract and subsequently construction Bid Opp.	Delays construction (RAS) by 12 months			
T	Pipes to be painted to match existing plant colour.	There are seasonal constraints for applying paint coatings (humidity)	Paint coatings do not last max life			
T	Two RAS lines in series with intermediate process stabilization	Process may take longer to stabilize	Second RAS replacement delayed 12 months			
T	Max 8 hr. down time permitted for FW system	Multiple choices for plan to replace FW pipe; design could take longer than expected; commissioning could take longer	Project cost and schedule higher; delays to FW and RAS			
T	Plan to replace FW line with a parallel line and tie in at both ends at the end (max 8 hr. down time)	Tie in's take longer;	Process upset and compliance failure			

Project Budget or Target Cost (\$,000) Insert \$ value

Risk Event Assessment						Risk Response Assessment (based on an Implemented Risk Management Plan - future state)								
Magnitude of Risk Event(1-5)	Likelihood (1-5)	Assessed Score C X L	Estimated Impact (\$,000) what is cost if risk occurred)	Financial Impact (% Target Cost)	Financial risk prior to Mitigation	Risk Response Type (Avoidance, Transference, Mitigation, Acceptance)	Risk Response Plan - Actions	Residual Magnitude occur (1-5)	Residual Likelihood (1-5)	Assessed Residual Score	Cost of Mitigation (\$,000)	Adopted	Financial risk after mitigation	Trigger date (mandatory review date)
3	3	9		#VALUE!	-	Mitigation	Plan de-commissioning/ construction/commissioning very well, include mitigations. Include for pipe preparation before de-commissioning	3	2	6				
2	2	4		#VALUE!	-					0				
2	4	8		#VALUE!	-	Mitigation	Prioritize and resource RFP; Communicate importance to stakeholders	2	2	4				
1	2	2		#VALUE!	-					0				
3	1	3		#VALUE!	-	Acceptance		3	1	3				
3	3	9		#VALUE!	-	Mitigation	Split design packages for FW and RAS; Consultant provides early concept of FW plan to get buy-in; Avoid concurrent FW and RAS construction	2	2	4				
1	2	2		#VALUE!	-					0				

Risk Response Plan - Execution Log					Contingency Plan		
k 3	Date for each action	Mitigation Evaluation	Action Log Reference	Comments	k 4 Contingency plan	k 5 Risk Level Before Mitigation	Risk Level After Mitigation
						High	Med
						Low	Not Assessed
						High	Low
						Low	Not Assessed
						Med	Med
						High	Low
						Low	Not Assessed