Electromechanical Generic Risk Assessment *RAELEC27102021-1*				*Initial* *Risk*			*Activity/Topic:* **Electromech**			*Residual Risk*		
	Task Description	**Significant Hazards**	**Who Might Be Harmed and How?**	**Likelihood**	**Severity**	**Risk Rating**	**Existing Controls**	**Additional Action Required**	**Action by When and Whom?**	**Likelihood**	**Severity**	**Risk Rating**
1	**Electromech** using Push Rod Method	Tripping hazards from cables and associated cable drum	The engineer, customer or members of public via the occurrence of slips, trips and falls	2	4	8	Work zone to be organised in a manner that reduces tripping hazards from cable drum/cables. Keep cables together and use a cable tidy if necessary. Eliminate all tripping possibilities in the work zone in close proximity to open chambers and roadways. Keep cables and drum secure behind barriers/cones where third party interaction is expected.	None	None	1	4	4
2	**Electromech** using Push Rod Method	Ill-health, such as Gastroenteritis Leptospirosis	The engineer via exposure to sewage	2	4	8	A high standard of personal hygiene is to be practiced by all electromech engineers. This includes frequent washing of hands and exposed skin, particularly before eating, drinking or smoking. Anti-bacterial wipes and hand gels issued to all vans. Wash	None	None	1	4	4

							down equipment regularly after use to remove contamination residues. Cover all exposed cuts to skin with clean dressings. Carry the Leptospirosis card and report any early symptoms to your GP.					
3	**Electromech** using Push Rod Method	Fire hazard from grounded generator	The engineer, customer or members of public via exposure to fire hazard	2	4	8	Keep all combustible material well away from the generator and ensure good ventilation during use. NO SMOKING during fuelling of petrol generator. Generator MUST NOT be refuelled whilst in operation or whilst the engine is hot. Allow to cool before refuelling. Use approved container and funnel only. Ensure generator is guarded to prevent unauthorised access to it.	None	None	1	4	4
4	**Electromech** using Push Rod Method	Slippery surfaces around manhole chamber	The engineer, customer or members of public via the occurrence of slips, trips and falls	2	3	6	Anti-slip safety footwear will be worn. Excess spillages around the chamber will be kept to a minimum throughout the task. Spill kit located on vehicle for excessive contamination of ground conditions.	None	None	1	3	3

5	**Electromech** using Push Rod Method	Manual handling of Electromech equipment	The engineer via exposure to manual handling activities	4	3	12	All equipment will be taken to works location using internal lift provided. In instances equipment requires to be lifted Task Individual, Load and Environment has to be considered. Operatives are only permitted to manoeuvre weights which they deem suffice to do so. **THE CUSTOMER MUST NOT BE ASKED TO LIFT THEMSELVES OR ASSIST IN COVER LIFTING**. Avoid over-reaching into vehicle when loading/unloading. Store on the vehicle in a manner that helps eliminate the need for stooping, twisting and overhead reaching.	ALL businesses to confirm that recognised and approved manhole lifting equipment is available on vehicles.	Field Operations	2	3	6
6	**Electromech** using Push Rod Method	Contact with sewage and potential for cuts and abrasions	The engineer via exposure to the hazard	4	3	12	ALL CCTV operators will wear the following PPE on task when interacting with the equipment - Safety Helmet with chin strap, Boiler suit /Wet Suit, Ruff n Tuff type gloves (black), Full face visor or safety glasses, Safety Footwear (sole & toes protection).	None	None	2	3	6
7	**Electromech** using Push Rod Method	Electrocution from equipment	The engineer and the	3	5	10	Equipment will be fully inspected for electrical serviceability prior to	None	None	1	5	5

			customer via an electrical contact				each job. All equipment is and PAT tested. Where possible, try to select battery operated cameras.					
8	**Electromech** Working at height	Fall from height	Engineer	3	5	15	Engineers are required to barrier of manholes and ensure working at height regulations are adhered to. Barriers are of type when fall occurs they collapse and cover entry point. Barriers are 4 sectional utility type	Deep manhole chambers require additional protection harness, tripod and winch when working over or near.	none	1	5	5
9	**Electromech** Operations	Untrained engineers	Engineer/ public	5	5	25	All operatives at time of employment have to prove competence by providing current in date certificate recognised by the industry. All traing has to be reviewed on a rolling basis and any training required has to be carried out in a timely fashion. Untrained operatives are not permitted to use HPWJ equipment or aid in jetting works.	Review to be carried out periodically	Director	1	5	5
10	**Electromech** Operations	entanglement	Engineer	4	4	16	High speed rotational element has sleeve covering to ensure no moving parts are	None	None	1	5	5

							available to be touched by engineer. Engineer is required to increase speed as required to carry out task and nor run machine in revers unlss to unjam (short duration only). Changing of attachment has to be carried out when machine is isolated from electrical supply (disconnected).					
11	**COVID-19**	Contraction of virus	Engineer/ public	4	4	16	Social Distancing has to be met during working (2mtrs) this includes interaction with residents and clients known or unknown. Only. Due to the access being used no definitive database of infected communal areas they are required to wear COVID – 19 PPE type 11r 3ply masks, disposable aprons or disposable coveralls, disposable gloves and face shield (face shields are required to be wiped down with antiviral solution after use). All surfaces touched by engineers are required to be wiped down using antiviral wipes. Personal hygiene has to be attended to on a regular basis (washing or wiping	none	none	1	4	4

							of hands frequently during the working day with antiviral solution or wipes). All equipment at the end of the work day requires to be wiped down using antiviral wipes, during the period no swapping of work equipment is permitted.					

Risk Rating			Likelihood of Occurrence					Action Required
			1: Unlikely	2: Possible	3: Quite Possible	4: Likely	5: Very Likely	
			1	2	3	4	5	
Hazard Severity	1: None or very minor injury	1	1 = Low	2 = Low	3 = Low	4 = Low	5 = Low	Low: No immediate action required.
	2: Minimal Injury-first aid needed	2	2 = Low	4 = Low	6 = Low	8 = Medium	10 = Medium	Medium: Actions required to reduce risks
	3: Serious injury with lost time	3	3 = Low	6 = Low	9 = Medium	12 = High	15 = High	
	4: Major injury or RIDDOR	4	4 = Low	8 = Medium	12 = High	16 = High	20 = High	High: Actions required urgently to reduce risk. Consideration to be given to cessation of activity until risks are reduced.
	5: Permanent disability or fatality	5	5 = Low	10 = Medium	15 = High	20 = High	25 - High	

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