Fachgebiet Resilient Cyber-Physical Systems - Risk Assessment

Activity being assessed Location

Use of Voltera NOVA printer RP B013

Reference Assessment date 200001 14. Jan 25

Review date

Description of activity

Operation of Voltera NOVA printer located in RP B013 (S2|02 B013)

Hazards	What harm might occur, and to whom?	Existing control measures			ng RR	Additional control measures	Res L	sidu S		risk RR
Contact with moving parts	Personal injury to user:- trapping and crushing	Keep hands outside of the printer enclosure whilst it is in operation.	1	2	2			1	2	2
Contact with smart dispenser and precision nozzle	and burns	Be careful when handling presision nozzles and the complete smart dispenser. Make sure hands are clear when the smart dispenser is in use and the system is moving.	1	2	2			1	2	2
Contact with electrical pins of the Module Hub		Never touch the electrical pins on the module hub when the locking lever is engaged.	1	2	2			1	2	2
Danger of shrapnel on breaking of Smart Probe		Wear eye protection, especially when using custom fixturing, printing 3D structures, or when mounting acessories.		3	6		:	2	3	6
Exposure to chemicals and nano particles during ink handling	operating:- respiratory damage	Only use approved, commercially available materials. Read the safety datashet (SDS) of every ink prior to operation. Perform appropiate measures to midigate risks stated in the SDS. Wear protective gloves when needed		3	3			1	3	3
Long exposure to loud noise	Personal injury to user and others in area whilst printer is operating:- Damage to ears or hearing ability	When NOVA pumps run above 30% duty cycle for extended periods of time, wear hearing protection	3	1	3		:	3	1	3

Assessment created by Persons consulted Philipp Macher Roderich Groß