

		CORRECTIVE ACTION TIMING PLAN				BUSINESS UNIT :- Pontypool Site												HSE 0064 & HSE 0065 January 2021	
						CHAMPION :- Shane Thomas												DATE :- 05/01/2021	
		OWNER :- S. Thomas Phone :- 4178		SUBJECT :- Corrective actions ref. ISO 14001 issues 2021															
No.	ELEMENT	CONCERN	CORRECTIVE ACTION	Resp.	Target Date	Initiated	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	Action Complete	COMMENTS	
1	Legislative compliance	Compliance with IPPC permit conditions	Provide annual usage figures for effluent, water waste & energy for 2020 to the NRW	ST	Feb '21													Jan '21	Information submitted
2	Legislative compliance	Compliance with IPPC permit conditions	IC4 - Review emission of zinc released via the V-notch to reduce levels to benchmarks noted in section 3.2.2 of the Agency Guidance Note IPPC S2.07	ST	Feb '21													Jan '21	Information submitted
3	Legislative compliance	Compliance with IPPC permit conditions	IC6 - Undertake an assessment of the energy management improvement measures on site	ST/NJ	Jul '21														Energy team meets weekly to discuss and focus on energy savings
4	Legislative compliance	Compliance with IPPC permit conditions	Provide NRW with completed Annual Pollution Inventory for the site with 2020 data	ST	Mar '21													Mar '21	
5	General	Chemical Management	Investigate system to pump chemicals into the tanks without having to manually lift them onto the catwalk.	SW	Sep '21														Options have been reviewed but capital expense required. All spend on non essential costs on hold due to ZF mandate. Review 2022 ACTION ONGOING
6	General	Control of dangerous weeds	Continued treatment of japanese knotweed on site.	NJ	Dec '21														
7	Ground Contamination	Current site contamination from past processes	Continue with the remediation of chlorinated solvent contamination with the TRW Remediation Team Arcadis	ST	Dec '21													Dec '21	Project ongoing to Arcadis Remediation timing plan
8	General	Emergency planning	Plan a fire evacuation for Q2 2020 accross all 3 shifts	ST	Jul '21														
9	Energy Management	Energy Monitoring/reduction	Develop energy (Gas) KPIs for the process equipment using gas within the process	ST/NJ	Aug '21													Aug '21	KPI developed M³/1000 parts
10	Energy Management	Energy Monitoring/reduction	Improve control and flexibility in terms of compressed air	CH/NJ	Dec '21													Dec '21	This is a long term issue that is ongoing - 2 air leak surveys conducted in 2021
11	Energy Management	Energy Monitoring/reduction	Reduce air leaks by removing old/redundant equipment	CH/NJ	Dec '21													Dec '21	This is a long term issue that is ongoing - Equipment removed as it becomes redundant. Services removed at the same time.
12	Energy Management	Energy Monitoring/reduction	Identify and remove redundant compressed air pipe work	CH/NJ	Dec '21													Dec '21	This is a long term issue that is ongoing - Twilight valve fitted to isolate machine shop from assembly when required
13	Energy Management	Energy Monitoring/reduction	Continue energy team to review sub metering data to target improvements	ST	Dec '21													Dec '21	This is a long term issue that is ongoing - several meters returned to working order in 2021
14	Energy Management	Energy Monitoring/reduction	Review Machine shutdown procedures to maximise energy saving when not in use	ST	Jul '21													Jul '21	Machine shutdown procedures in place but are continually being refined to achieve better energy savings
15	Energy Management	Energy Monitoring/reduction	Use sub metering to improve Energy Profile for the site	ST	Oct '21													Oct '21	Use of Power BI to help visualise the issues
16	Energy Management	Energy Monitoring/reduction	Re-look at viability of localised boiler units for process plants – Combined heat and power unit	AW/NJ	Dec '21														Project on hold until 2026 due to upgrades to the powergrid by Western Power. Unable to connect CHP unit to the grid ACTION ON HOLD AND WILL BE REMOVED FROM CCAR

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17	Ground Contamination	Ground contamination prevention	Inspect interceptor for oil contamination & clean out if necessary	NJ	Jul '21												Jul '21	Visual inspection of the interceptor from road level.			
18	General	Hazardous materials management	Document periodic visual inspections carried out on Asbestos Containing Materials.	NJ	Dec '21												Dec '21	2021 Asbestos survey carried out			
19	General	Housekeeping throughout the site	Continue with the 5C/Housekeeping improvement projects in each business.	All	Dec '21												Dec '21	Continual item each year			
20	General	Information knowledge	Conduct annual MWF refresher training	ST	Oct '21												Oct '21	Information leaflet on MWF issued to employees			
21	General	Legionella Management	Carry out remedial works in line with the 2021 Legionella risk assessment	NJ	Dec '21												Dec '21	2021 Leginoella Risk Assessment carried out			
22	General	Legionella Management	Remove redundant water pipe work to reduce dead ends, etc	NJ	Dec '21												Dec '21				
23	Waste Management	Quantity of sludge tankers required	Re-investigate capacity of the filter presses to improve filter cake production and reduce req ^{mt} for sludge tankers	ST/NJ	Nov '21													Options have been reviewed but capital expense required. All spend on non essential costs on hold due to ZF mandate. Review 2022 ACTION ONGOING			
24	General	Site Management	Develop a Drumbrake closure plan to ensure that the closure and removal of equipment takes environmental issues into account	ST/SJ	Dec '21												Dec '21				
25	Waste Management	Waste Management	Review waste streams to determine further opportunities to reuse/reduce/recycle	ST	Dec '21												Dec '21				
26	Waste Management	Waste Management	Investigate a method to improve the handling of cast iron filter paper	GP	Sep '21												Sep '21	Segregate into clip top drums - problematic waste stream			
27	Waste Management	Waste Management/reduction	Review the procedure for the waste yard to ensure wastes are handled correctly	ST/NJ	Jul '21												Sep '21				
28	Waste Management	Waste Monitoring/reduction	Reinvestigate potential to recycle plastic tray packaging	ST/SJ	Dec '21													Some recycling opportunities but it is dependent upon the tray and plastic used. Each load is assessed prior to disposal.			
29	Waste Management	Waste Monitoring/reduction	Review investigate why the zinc nickel plating solution waste is being produced and take the necessary actions to eliminate/reduce this waste stream.	AW	Dec '21													Due to proces inefficiencies whilst on six tanks. No current solution available - Chemical supplier has been involved in the discussion regarding options/alternatives ACTION ONGOING			
30	Energy Management	Energy Monitoring/reduction	Establish what reports can be generated by the new sub metering software so that the data can be used to prioritise actions.	NJ/ST	Jul '21												Oct '22	Use of PowerBI software to collate information and assist in highlighting energy issues			

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31	Energy Management	Energy Monitoring/reduction	Improve temperature control of the Zinc nickel plating tanks – reduction in use of the chiller	NJ/ST	Dec '21													5 out 6 tanks on auto temp. control valves. Chiller pipework need to be modified to include a return loop to prevent the chiller dead heading when there is no flow through the system. ACTION ONGOING			
32	Waste Management	Waste Monitoring/reduction	Review briquetting of cast iron swarf	PT	Dec '21												Dec '21	80% of cast iron swarf is now briquetted			
33	Waste Management	Waste Monitoring/reduction	Review method for disposal of the filter paper	ST	Aug '21												Aug '21	Waste is becoming problematic for disposal			
34	Waste Management	Waste Monitoring/reduction	Review the use of filter paper media to clean coolant in machines	CH	Dec '21												Dec '21	2 new SW machine delivered 2021 with paperless filtration system Cost to retrofit existing machines prohibitive at present			
35	COSHH	Plant maintenance	Review plant maintenance matrix schedule to ensure that the maintenance is being carried out at the appropriate time intervals	SW	May '21												May '21	Maintance carried out to schedule and weekly samples taken to ensure that the tank concntrations are maintained			