All Issues

2

(on completion)

Cost to resolve all issues

City of London: Projects Procedure Corporate Risks Register Project name: LMA Ventilation PSDS Project Unique project identifier: TBC Total est cost (exc risk) £112694 Corporate Risk Matrix score table PM's overall risk rating Medium Avg risk pre-mitigation 9.7 Avg risk post-mitigation 12 Red risks (open) 7 4 8 Amber risks (open) 13 8 Green risks (open) 12 Costed risks identified (All) £82,000.00 Costed risk as % of total estimated cost of project Costed risk pre-mitigation (open) £82,000.00 73% Costed risk post-mitigation (open) £0.00 0% Costed Risk Provision requested £0.00 0% CRP as % of total estimated cost of project (1) Compliance/Regulatory 3.0 £3,000.00 0 0 2 (2) Financial £0.00 0 0 0 0.0 0 (3) Reputation £0.00 12.0 0 0 (4) Contractual/Partnership 12 £24,500.00 6 6.2 (5) H&S/Wellbeing 11 £23,000,00 2 15.6 6 3 (6) Safeguarding 2 £1,000.00 0 0 2 (7) Innovation £0.00 0 0 0 0 0.0 (8) Technology 0 0.0 £0.00 0 0 0 (9) Environmental £0.00 0 0 (10) Physical £30,500.00 0 3 Issues (open) Open Issues 2 0 1 0 1

All Issues

£11,771.00

0

1

Total CRP used to date

0

£0.00

Cit	of London: Projects Pr	rocedure Corporate	Risks Register																		
	Project Name:	LMA Ventilation	PSDS Project		1	PM's overall risk rating:	Medium		CRP requested this gateway	£	-	unmi	Average			9.7			Open Risks	32	
U	nique project identifier	TBC			Total	estimated cost (exc risk):	£	112,694	Total CRP used to date	£	-		e mitigated risk score			4.2		ď	Closed Risks	2	
Gen Risk	eral risk classification Gateway Category	Description of the Risk	Risk Impact Description Likelihood		Risk	Costed impact pre-	Costed Risk	Confidence in the	Mitigation actions Mitigating actions	Mitigation	Likelihood		Costed	Post- CF		Use of CRP	Date	& Action Named	Risk owner	Date	Comment(s)
ID			Classification pre- mitigation	Classificatio n pre- mitigation	score	mitigation (£)	Provision requested Y/N	d estimation		cost (£)		Classificat ion post- mitigation	impact post- mitigation (£)	Mitiga to tion risk score	date		raised	Departmental Risk Manager/ Coordinator		Closed OR/ Realised & moved to	
RI	5 (2) Financial	Asbestos survey fees higher than expected Cause: inaccurate budget assumptions, scope changes, project delays Event: fees higher than budget	Project delays while either a budget increase is approved or project is value engineered	Major	12	£0.00	N	B – Fairly Confident	Early engagement with suppliers to obtain a quotation or budget estimation. Careful specification of the works. Good project controls to minimise scope creep.	20.03) Unlikely	Serious	£0.00	4	£0.00	Allow for increased budget to meet the higher costs.	06/07/21	Carmel McGowen (CoL Project Manager)	Carmel McGowen (CoL Project Manager)	14/12/21	
R2	5 (4) Contractual/Par nership	Fan electrical connections † Cause: unsultable electrical † connections to the new fans Event: loss of service for an extended period of time	Additional project costs and time delay.	Serious	6	£0.00	N	A – Very Confident	An electrical engineer should be brought to the team to assess the capacity of the existing installation and to give advice. Wiring diagrams to be provided	£0.00) Rare	Serious	£0.00	2	£0.00		06/07/21	Carmel McGowen (CoL Project Manager)	Contractor		
R3	5 (4) Contractual/Par nership	Wider ventilation system issues Cause: unstable internal conditions due to unbolanced system (e.g. fire dampers closed, issues with the distribution system) Event: client expectations not meet	Additional project costs and time delay. Unlikely	Serious	4	£5,000.00	N	B – Fairly Confident	A provisional sum should be set aside for any commissioning works if needed	20.03) Unlikely	Serious	£0.00	4	£0.00		06/07/21	Carmel McGowen (CoL Project Manager)	Carmel McGowen (CoL Project Manager)		
R4	5 (1) Compliance/Re	Smoke sensors Cause: smoke sensors not fitted in the extract duct as the AHU is recirculating the air event non-compliance with 85.9999	Additional project costs and time. Possible	Minor	3	£2,000.00	N	C – Uncomfortable	Smoke sensors should be included in the specifications and integrated into the BEMS system, unless existing smoke sensors are already in place	20.03) Rare	Minor	20.00	1	£0.00		06/07/21	Carmel McGowen (CoL Project Manager)	Designer (Beverldge Associates)		
R5	5 (1) Compliance/Re gulatory	Fire override controls Cause: unknown location or existence of provision of override controls for fire and Event: non-compliance with 85.9999	Additional project costs. Possible	Minor	3	£1,000,00	N	C – Uncomfortable	location or existence of such controls should be confirmed by the client of the earliest controls for the earliest controls for the ventilation system should ventilation system should ventilation system should be confirmed to the first state of the control of the detection and find collion panel. The following should be clearly marked, where opplicable: opening the colling should be ventilation control? "Automatics": "Automatics": "Automatics." "Politt; "State of the control." "Sta	£0.0C) Rare	Minor	£0.00	1	£0.00		06/07/21	Carmel McGowen (CoL Project Manager)	Designer (Beverldge Associates)		To be discussed further with Beverdige Associates before 9th June 2021.
R6	5 (10) Physical	Equipment handling Cause: equipment handling Event: damage caused to goods lifts and walls	Additional project time delay.	Minor	3	£500.00	N	B – Fairly Confident	The goods lift should be covered in protective material. The weight limit should not be exceed. Contractor to be instructed about what lifts should be used and about the maximum capacity of each lift.	20.03) Unlikely	Minor	£0.00	2	£0.00		06/07/21	Carmel McGowen (CoL Project Manager)	Contractor		
R7	5 (10) Physical	Environmental close-control interruption. Cause: ventilation downtime for the works. Event: temperature and humidity levels exceed those required to protect the artifacts on display or in storage.	Damage to artifacts, insurance implications, reputational (and risk to tacting future exhibitions) risk from damage to any loaned works.	Major	12	£10,000.00	N	B – Fairly Confident	Programme works for time of year which will minimise impact. Minimise duration of interruption by programming enabling works in advance. Interruption. aiming for the steam system to be kept on for as long as possible before replacing with new humidifiers.	£0.0£) Unlikely	Major	£0.00	8	£0.00		06/07/21	Carmel McGowen (CoL Project Manager)	Carmel McGowen (CoL Project Manager)		
R8	5 (2) Financial	Tender costs higher than budget Cause: inaccurate budget assumptions, scope creep, poor specification, project delays Event: tender/quote costs higher than budget, or additional costs incurred during the project	Project delays while either a budget increase is approved or project is value engineered	Major	12	£0.00	N	B – Fairly Confident	Early engagement with suppliers to obtain a quotation or budget estimation. Careful specification of the works. Good project controls to minimise scope creep.	£0.0£) Unlikely	Serious	£0.00	4	£0.00	Allow for increased budget to meet the higher costs.	06/07/21	Carmel McGowen (CoL Project Manager)	Carmel McGowen (CoL Project Manager)	14/12/21	
R9	5 (3) Reputation	Weather Couse: weather is very hot or very cold during AHUs refurbishment Event: while AHUs are offline during the refurbishment this could result in unstable conditions (temperature and humidity) within the served spaces and sisk damage to the stored artifacts.	Additional project costs. Parts of the building might need to be closed to public.	Major	12	£0.00	N	8 – Fairly Confident	Ventilation shut-down should be scheduled during period of anticipated milder weather.	20.03) Possible	Serious	£0.00	6	20.00	Hire of temporary heating, cooling or humidification plant as required.	06/07/21	Carmel McGowen (CoL Project Manager)	Carmel McGowen (CoL Project Manager)		

Appendix 2 PSDS Project LMA Ventilation

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RIC	5	(4) Contractual/Part nership	Supply delivery disruption Cause: disruption to the transport system Event: delays for materials and personnel	Additional project time delay.	Unlikely	Minor	2	£1,000.00	N	B – Fairly Confident	Equipment order should be placed at the beginning of the project. Materials could be shipped in batches. Works to specific system should only start when the materials are available.	£0.00	Rare	Minor	£0.00	1	£0.00		06/07/21	Carmel McGowen (CoL Project Manager)	Carmel McGowen (CoL Project Manager)	
R11	5	(4) Contractual/Part nership	Contractor liquidity Cause: contractor cash liquidity Event: contractor insolvency	Additional project costs and time delay.	Unlikely	Extreme	16	£1,000.00	N	B – Fairly Confident	Due diligence on the company profile	£0.00	Unlikely	Serious	£0.00	4	£0.00		06/07/21	Carmel McGowen (CoL Project Manager)	Contractor	
R12	5	(4) Contractual/Part nership	Commissioning and snagging delays Cause: commissioning and snagging not performed on time Event: the quality of remaining works might be jeopardised if repeated mistakes are not spotted on time.	Additional project time delay.	Possible	Serious	6	20.00	N	B – Fairly Confident	Quality checks should be performed on a dally basis	£0.00	Unlikely	Minor	£0.00	2	£0.00		06/07/21	Carmel McGowen (CoL Project Manager)	Contractor	
R13	5	(4) Contractual/Part nership	Contract dispute Cause: disputes between the client and the contractor Event: legal actions delays or pause in the project	Additional project time delay.	Unlikely	Serious	4	£2,500.00	N	B – Fairly Confident	All contracts should be signed before starting the project. Provide clear and concise specifications.	£0.00	Rare	Minor	£0.00	1	£0.00		06/07/21	Carmel McGowen (CoL Project Manager)	Carmel McGowen (CoL Project Manager)	
R14	5	(4) Contractual/Part nership	Contractor performance Cause: contractor not performing to expectations Event: programme of works altered and delays in delivering key milestones	Additional project time delay.	Likely	Serious	8	£1,000.00	N	B – Foirly Confident	Careful contractor selection, using established frameworks. Good project management and controls with frequent meetings, key milestones, regular contract reports, regular site inspections.	£0.00	Unlikely	Serious	£0.00	4	£0.00		06/07/21	Carmel McGowen (CoL Project Manager)	Carmel McGowen (CoL Project Manager)	
R15	5	(4) Contractual/Part nership	Faulty equipment Cause: faulty equipment delivered to site Event: unstable internal (humlidity and temperature) conditions and delays in the programme	Additional project time delay.	Unlikely	Serious	4	£1,500.00	N	B – Fairly Confident	The contractor should test the equipment at their facility prior to delivering it to site for installation. All equipment should come with a "good working condition" certificate	£0.00	Rare	Minor	£0.00	1	£0.00		06/07/21	Carmel McGowen (CoL Project Manager)	Contractor	
R16	5	(4) Contractual/Part nership	Equipment availability Cause: Unavailability of equipment and materials Event: delays in starting the project or delivering key millestones	Additional project costs and time delay.	Possible	Serious	6	£500.00	N	B – Fairly Confident	The contractor should place an order with the manufacturer at the earliest convenience. Consult with suppliers early to make allowance in the programme for lead-in limes.	£0.00	Unlikely	Serious	£0.00	4	£0.00		06/07/21	Carmel McGowen (CoL Project Manager)	Contractor	
R17	5	(4) Contractual/Part nership	Coordination with other site works and maintenance Cause; poor coordination with other site project works or maintenance works Event: disruption to both works	Project delays	Unlikely	Serious	4	£0.00	N	B – Fairly Confident	Early and ongoing engagement with all key stakeholders	£0.00	Unlikely	Minor	£0.00	2	£0.00		06/07/21	Carmel McGowen (CoL Project Manager)	Carmel McGowen (CoL Project Manager)	
R18	5	(5) H&S/Wellbeing	Asbestos Cause: unsurveyed areas of work Event: asbestos discovery	Additional project costs and time delay while asbestos is managed.	Unlikely	Serious	4	£2,500.00	N	B – Fairly Confident	Asbestos R&D survey completed and no risks found.	£0.00	Rare	Serious	£0.00	2	£0.00		06/07/21	Carmel McGowen (CoL Project Manager)	Carmel McGowen (CoL Project Manager)	
R19	5	(5) H&S/Wellbeing	Air contomination Cause: contractor works and type of material used (e.g.: paint, cleaning regime, etc) Event: damage to artifacts and sisplay or in storage, etchic and type of the species of the speci	Additional project costs and irreparable damages created to works of art	Unlikely	Extreme	16	£10,000.00	N	B - Fairly Confident	The contractor should keep the working areas very fitly and clean at all times. The materials used that might cause direct or indirect damages to the artifacts should be throughly checked and specified in the spec (e.gpoint with no VOC, bringing the ANIs stowly that action, duct cleaning, stort cle	£0.00	Rare	extreme	£0.00	8	£0.00		06/07/21	Carmel McGowen (CoL Project Manager)	Contractor	
R20	5	(5) H&S/Wellbeing	Bectrical works Cause: accident while working on or near electrical equipment, ursade works or installation. Event: injury or death to those working in the vicinity of the works, electrical fire, damage to property.	Project delays. Reputational risk.	Possible	Extreme	24	£1,000.00	N	B – Fairly Confident	Selection of experienced and competent contractors. Scrutiny of plans and monitoring of works to ensure compliance with CDM, CoL H&S Policy, and any specific site requirements.	£0.00	Rare	Extreme	£0.00	8	£0.00		06/07/21	Carmel McGowen (CoL Project Manager)	Contractor	
R21	5	(5) H&S/Wellbeing	Plant room working Cause: number of typical plant room hazards from trip hazards to low heights, to slippery surfaces, hot surfaces, moving parts, dust, noise. Event: injury to persons or property	Project delays. Reputational risk.	Possible	Extreme	24	£1,000.00	N	B – Fairly Confident	Selection of experienced and competent contractors. Scrutiny of plans and monitoring of works to ensure compliance with CDM, CoL H&S Policy, and any specific site requirements.	£0.00	Rare	Extreme	£0.00	8	£0.00		06/07/21	Carmel McGowen (CoL Project Manager)	Contractor	
R22	5	(5) H&S/Wellbeing	Mechanical works Cause: accident while working on or near mechanical equipment, unsafe works or installation. Event: injury or death to those working in the vicinity of the works, damage to property.	Project delays, Reputational risk.	Possible	Extreme	24	£1,000.00	N	B – Fairiy Confident	Selection of experienced and competent contractors. Scrutiny of plans and moraltoring of works to ensure compliance with CDM, CoL H&S Policy, and any specific site requirements.	£0.00	Rare	Extreme	£0.00	8	£0.00	,	06/07/21	Carmel McGowen (CoL Project Manager)	Contractor	

Appendix 2 PSDS Project LMA Ventilation

R2	5	(5) H&S/Wellbeing	Working at height Cause: accident while working at height, such as accessing ductwork from a ladder. Event: injury people falling from height or landing on	Project delays. Reputational risk.	Possible	Extreme	24	£1,000.00	N	B – Fairly Confident	Selection of experienced and competent contractors. Scruliny of plans and monitoring of works to ensure compliance with CDM, CoL H&S Policy, and any	£0.00	Rare	Extreme	£0.00	8	£0.00	06/07/21	Carmel McGowen (CoL Project Manager)	Contractor	
R2	5	(5) H&S/Wellbeing	Power tools Cause: accident while working with power tools Event: injury to persons or property	Project delays. Reputational risk.	Possible	Extreme	24	£1,000.00	N	B – Fairly Confident	specific site requirements. Selection of experienced and competent contractors. Scrutiny of plans and monitoring of works to ensure compliance with CDM, CoL H&S Policy, and any specific site requirements.	£0.00	Rare	Extreme	£0.00	8	£0.00	06/07/21	Carmel McGowen (CoL Project Manager)	Confractor	
R2	5	(5) H&S/Wellbeing	Smoke clearance fan down- time Cause: Smoke clearance fans will be unavailable during their replacement works period Event: Area served by those fans is not protected from smoke in the event of a fire during the works	If there is a fire in the area served by the smoke extract fans, there are no other means for smoke clearance and the personnel is put in danger	Unlikely	Major	8	£5,000.00	N	B – Fairly Confident	The areas served by those fans should not be used during the works (approx. 3 days for each smake extract fan)	£0.00	Rare	Minor	£0.00	1	£0.00	06/07/21	Carmel McGowen (CoL Project Manager)	Carmel McGowen (CoL Project Manager)	
R2	5	(5) H&S/Wellbeing	Covid-19 Cause: Covid-19 outbreak Event: disruption to contractor or supply-chain, infections between personnel, restricted or no access to the building.	Additional project time delay and closure of the building	Likely	Serious	8	£500.00	N	B – Folify Confident	Work in accordance with CoL COVID-19-safe guidelines, including the use of face masks and social distance between teams, limiting personnel within confined plant rooms where possible. Vaccination of site personnel.	£0.00	Possible	Serious	20.00	6	£0.00	06/07/21	Carmel McGowen (CoL Project Manager)	Carmel McGowen (CoL Project Manager)	
R2	5	(5) H&S/Wellbeing	Naise nuisance Cause: use of power tools for cutting Event: noise is audible to occupants	Nulsance cause to occupants.	Unlikely	Serious	4	£0.00	N	B – Fairly Confident	Consultation with stakeholders to understand potential impacts. Careful planning of works to avoid time when this may be an issue.	£0.00	Unlikely	Minor	£0.00	2	£0.00	06/07/21	Carmel McGowen (CoL Project Manager)	Contractor	
R2	5	(5) H&S/Wellbeing	Fresh air interruption Cause: fan and humidifier replacements require downtime of the ventilation for a period of time (~5 days) Event: No fresh air during the down-time period. Any persons within the areas served by the ventilation plant which is offline may be at a higher risk of covid-19 transmission. Difficulties in arranging a time for the works to as to minimise this impact.	Project delays	Possible	Major	12	20.00	N	B – Foirly Confident	Early consultation with key stakeholders. Careful duration of interruption.	£0.00	Unlikely	Serious	£0.00	4	£0.00	06/07/21	Carmel McGowen (Col. Project Manager)	Carmel McGowen (CoL Project Manager)	
R2	5	(6) Safeguarding	Loading/un-loading Cause: Loading and un- loading of materials Event: Members of the public might enter the building unauthorised	Additional project costs	Unlikely	Serious	4	£500.00	N	B – Fairly Confident	Extra security during the loading time. There should be a process where the contractor announces the security in advance of their actions.	£0.00	Rare	Minor	20.00	1	£0.00	06/07/21	Carmel McGowen (CoL Project Manager)	Contractor	
R3	5	(6) Safeguarding	Vehicle access Cause: Vehicle access to LMA site Event: Possible injuries to pedestrians	Reputation damage and financial loss	Unlikely	Serious	4	£500.00	N	B – Fairly Confident	Good contractor management, ensuring construction plan and RAMS are in place. Only authorised drivers should be granted permission for access to the Guildhall	£0.00	Rare	Extreme	£0.00	8	£0.00	06/07/21	Carmel McGowen (CoL Project Manager)	Contractor	
R3	6	(10) Physical	Ongoing Environmental close control Cause: a fault with the design, installation or constrol to the maintained conditions not meeting requirements. Event: temperature and humidity levels exceed those required to protect the stored artifacts.	Damage to artifacts, insurance implications, reputational (and risk to hosting future exhibitions) risk from damage to any loaned works. Discomfort to accupants, reputational risk if impacting visitors or even guests.	Possible	Major	12	£20,000.00	N	B – Fairly Confident	Careful design and specification. Selection of contractor experience with these types of works for these types of environments. Good project control and monitoring to ensure installation meets specification. Extended commissioning and annoince monitoring to ensure installation meets specification. Extended commissioning and annoince monitoring.	£0.00	Unlikely	Major	£0.00	8	£0.00	06/07/21	Carmel McGowen (CoL Project Manager)	Designer (Beverldge Associates)	
R3	6	(4) Contractual/Part nership	Ventilation rates lower than required Cause: incorrect specification, faulty equipment, incorrect installation or commissioning Event: ventilation rates not meeting specification	Not meeting fresh air requirements and potentially the temperature and humidity requirements. This could lead to poor air quality, higher risk of COVID-19 transmission, damage to artifacts.	Possible	Serious	6	£10,000.00	N	B – Fairly Confident	Careful fan specification, based on available design information supplemented by survey validation check measurements. Specification of high quality products, supplier and installer, Good project monitaring to ensure correct installation, verified during commissioning witnessing.	£0.00	Unlikely	Minor	£0.00	2	£0.00	06/07/21	Carmel McGowen (CoL Project Manager)	Designer (Beverldge Associates)	
R3	6	(4) Contractual/Part nership	Failure of new fans Cause: faulty equipment or installation, incorrect enabling works Event: reduced air flow rates	Not meeting fresh air requirements and potentially the temperature and humidity requirements. This could lead to poor air quality, higher risk of COVID-19 transmission, damage to artifacts.	Unlikely	Major	8	£2,000.00	N	B – Fairly Confident	Provide modular design for multiple fans to improve resilience	£0.00	Unlikely	Minor	£0.00	2	£0.00	06/07/21	Carmel McGowen (CoL Project Manager)	Contractor	

Appendix 2 PSDS Project LMA Ventilation

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	Savings lower than estimated	1											
1	Cause: Inaccurate	1											
	assumptions or calculations, Installation does not meet												
	specification, post-installation												
	changes to the control Unable to varify project												
	settings of the Ventilation meets the PSDS lifetime				Base saving estimates on								
	systems, post-installation maintenance issues with the				conservative assumptions					Carmel	Carmel		
R34	6 (9) Environmental wider ventilation system, I to the Climate A state Possible	Major	12	£0.00 N B - Fairly Confident	Refine estimations based on final design. Verify £0.00 Possible	Serious	£0.00	6 £0.00	06/07/21	McGowen (CoL	McGowen (CoL		
	future energy prices lower	1			on final design. Venty assumptions throughout the					Project Manager)	Project Manager)		
	than anticipated, future electric grid carbon factor				project.								
	lower than anticipated, higher than anticipated.												
	weather deviates from												
	typical ranges												
	Event: actual energy cost and carbon savings are												
	lower than estimated												
R35													
R36													
R37													
R38		1									1		
R39		+						 					
R40 R41		1	-		 					 			
R42		+						 			_		
R42 R43													
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R48 R49		1		 	 			 			 	-	
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R50 R51													
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R77		1	-	0.00	20.00		£0.00				1		
R78		-	-	00.02	£0.00		£0.00						
R79 R80		+	 	£0.00 £0.00	00.03 00.03		£0.00			l			
R81		1	†	£0.00	£0.00		£0.00						
R82				£0.00	£0.00		£0.00						
R83				00.03 00.03	00.03 00.03		£0.00						
R84					£0.00								
R85		1	-	0.00	20.00		£0.00				1		
R86 R87		1	-	00.03	00.03		£0.00				1		
R87		+		£0.00 £0.00	00.03 00.03		£0.00						
R89		1		£0.00	£0.00		£0.00				1 +		
R89 R90				£0.00	£0.00		£0.00						
R91 R92		1		£0.00	£0.00		£0.00						
R92				£0.00	£0.00		£0.00						
R93 R94		1	-	£0.00 £0.00	00.03		£0.00	0.00			1		
R94 R95		1	-	£0.00 £0.00	£0.00 £0.00		£0.00				1		
R95 R96		+		£0.00 £0.00	£0.00 £0.00		£0.00	£0.00 £0.00					
R97		1		£0.00	£0.00		£0.00				1 +		
R98				£0.00	£0.00		£0.00	£0.00					
R99				£0.00 £0.00	00.03 00.03		£0.00 £0.00	£0.00 £0.00					
R100		1		£0.00	£0.00		£0.00	£0.00					