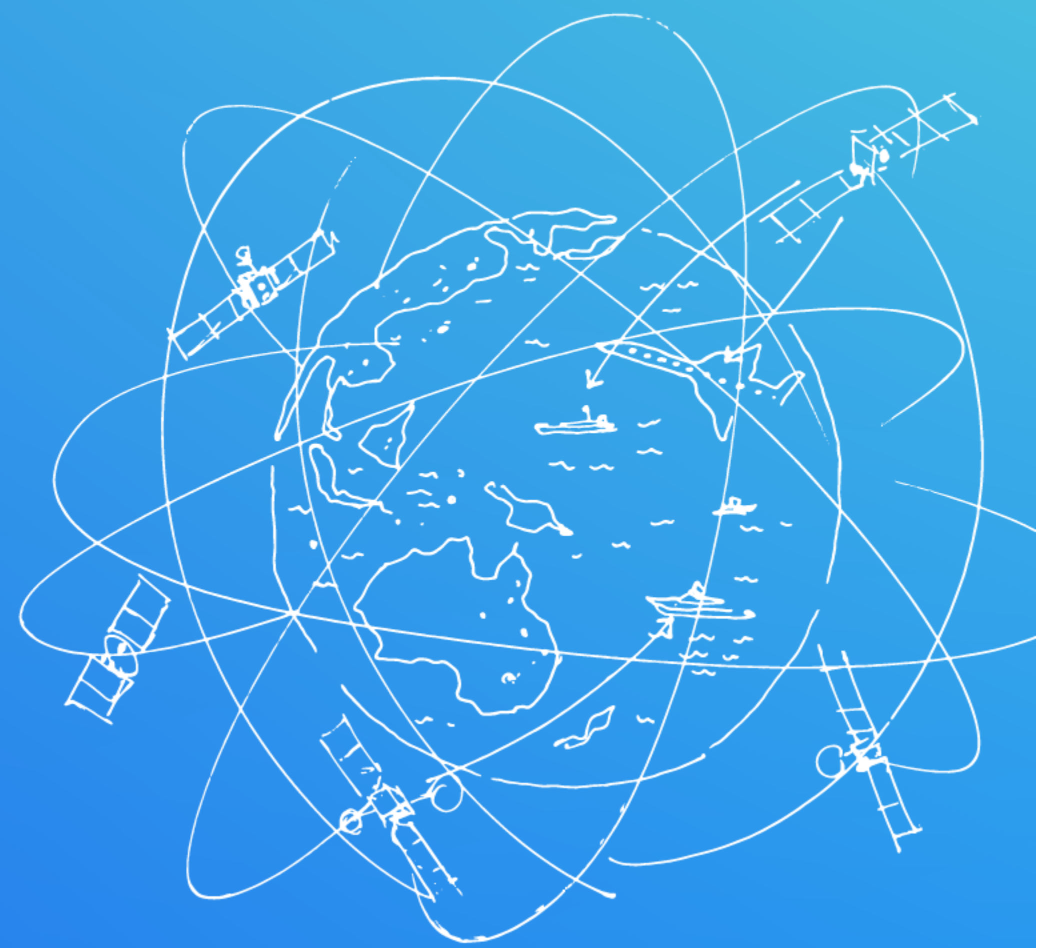
EST08953 – Russell Offices R2 Level 6 50% Schematic Design Report

Volume 1
Appendix B. Risk Register

Document no: EST08953-s47E(d)



PROJECT RISK REGISTER - EST08953 - R2L6												
Initial Risk (at initial assessment)								Initiated	Residual Risk (progressive or at Design close out)			
Risk ID	**Risk / Opportunity**	**Facility Area / Lifecycle Stage**	**Hazard**	**Hazardous Event / Scenario**	**Control Measures in Place**	**Consequence Rating (1 - 5)**	**Likelihood Rating (A,B,C,D,E)**	**Risk Level**	**By / Date**	**Improvement Action**	**Consequence Rating (1 - 5)**	**Likelihood Rating (A,B,C,D,E)**	**Risk Level**
PROJECT RISKS													
1	Risk	Development and Delivery	Delivery of Services Financial Reputation	**Program** Delays to the approval process impacts program, cost, construction, occupancy and project completion.	Update program to include additional reviews for the approval process.	4 - Major	A - Almost Certain	VH	4/08/2022	PMCA to undertake ongoing communication with client. Program to address project constraints. Delivery Program includes Accreditation period of 6 Months as advised by Accreditation Authorities.	3 - Moderate	B - Likely	H
2	Risk	Development	Delivery of Services Financial	**Contract** Contract inaccuracies, impact on program to rectify, and cost.	Legal and Probity are engaged and involved in document reviews.	3 - Moderate	C - Possible	M	4/08/2022	PMCA to allow adequate time in program for quality reviews and checks (6 weeks approx.). PMCA to provide quality documentation and information to form part of the contract.	3 - Moderate	D - Unlikely	M
3	Risk	Development and delivery	Delivery of Services Financial	**Price and Program** High tender costs due to constraints to construction industry. Limited skilled labour and supply of materials impact cost and program.	Market Sounding completed in Q1 2024 with 31 responses. 19 of the 31 reponses with the capability to undertake the project works. QS to include Risk provision in Cost Plan for constraints to constrcution industry, skilled labour and supply of materials. Risk to be re-visited and re-evaluated after each milestone completion.	3 - Moderate	C - Possible	M	4/08/2022	PMCA to review Local Market Construction Data (ACT Building Major Construction Forecast) to assess the market capacity. DSC to highlight materials in short supply for review and early procurement. PMCA to review recent projects. PMCA to allow for contingency in the Program.	3 - Moderate	D - Unlikely	M
4	Risk	Delivery	Financial	**Budget** Escalation costs, program, supply costs, unforeseen issues, scope change impact budget.	PMCA to ensure accurate scoping advice is provided to tenderers.	4 - Major	D - Unlikely	M	4/08/2022	PMCA to ensure clear lines of communication to manage scope, supply issues and allow for sufficient risk provision in Budget and program. PMCA to review recent projects and apply Lessons Learnt.	3 - Moderate	D - Unlikely	M
5	Risk	Delivery	Delivery of Services Financial	**Cost and Program** Specified furniture, fittings, finishes and equipment (FFFE) may be unavailable or have long lead times. Alternatives selected may be more expensive.	DSC to ensure availability of specified Furniture, fittings, finishes and Equipment (FFFE) prior to Tender.	3 - Moderate	D - Unlikely	M	4/08/2022	DSC to identify long lead FFFE items and early procurement if required. During tender, tenderer to ensure availability and early procurement if required. s47E(d)	2 - Minor	D - Unlikely	L

PROJECT RISK REGISTER - EST08953 - R2L6

Initial Risk (at initial assessment)									Initiated	Residual Risk (progressive or at Design close out)			
Risk ID	Risk / Opportunity	Facility Area / Lifecycle Stage	Hazard	Hazardous Event / Scenario	Control Measures in Place	Consequence Rating (1 - 5)	Likelihood Rating (A,B,C,D,E)	Risk Level	By / Date	Improvement Action	Consequence Rating (1 - 5)	Likelihood Rating (A,B,C,D,E)	Risk Level
6	Risk	Development and Delivery	Delivery of Services Financial Security	**Security** Program delays, long lead times, design risk, cost and impact to end-users operational capability. Change in requirements impact program, resources and project budget. Delayed Accreditation Authority process, causing program impacts	PMCA and DSC team commenced early engagement with Acreditation Authorities. DSC team to identify long lead items, asset and equipment to be ordered early. s47E(d) [redacted] PSWG meetings. s47E(d) [redacted]	3 - Moderate	B - Likely	H	4/08/2022	s47E(d) [redacted] Engagement activities with relevant authorities to be mandated in design activities and procurement. s47E(d) [redacted] Peer Review.	3 - Moderate	C - Possible	M
7	Risk	Delivery	Reputation	**Staging** Temporary Accommodation is not available. s47E(d) [redacted]	s47E(d) [redacted]	4 - Major	C - Possible	H	4/08/2022	s47E(d) [redacted] Acknowledge critical periods for end-users and develop a plan in consultation with end-users. PMCA to review Option 1 Full scope delivery and prepare staging plans if required.	3 - Moderate	D - Unlikely	M
8	Risk	Delivery	Delivery of Services Financial	**Procurement** Delays in the supply of ACTIVE ICT equipment (DDG) impacts project budget, design and occupancy. Limited storage space on Defence estate.	[redacted]	4 - Major	C - Possible	H	4/08/2022	s47E(d) [redacted]	4 - Major	D - Unlikely	M
9	Risk	Delivery	Delivery of Services Financial	s47E(d) [redacted]	[redacted]	4 - Major	C - Possible	H	31/10/2024	[redacted]	4 - Major	C - Possible	H

PROJECT RISK REGISTER - EST08953 - R2L6												
Initial Risk (at initial assessment)								Initiated	Residual Risk (progressive or at Design close out)			
Risk ID	Risk / Opportunity	Facility Area / Lifecycle Stage	Hazard	Hazardous Event / Scenario	Control Measures in Place	Consequence Rating (1 - 5)	Likelihood Rating (A,B,C,D,E)	Risk Level	By / Date	Improvement Action	Consequence Rating (1 - 5)	Likelihood Rating (A,B,C,D,E)	Risk Level
10	Risk	Operational	Reputation	**Stakeholders** Does not meet end-user functional requirements.	s47E(d) [redacted]	4 - Major	C - Possible	H	4/08/2022	PMCA to facilitate regular Communication and presentations with stakeholders, neighbours and building to manage R2 occupant expectations. PMCA progressing SFRB revalidation, final approval targeting end of Nov 24 prior to Final 50% SDR submission.	4 - Major	D - Unlikely	M
11	Risk	Delivery	Delivery of Services Reputation	**Defects** Poor workmanship impact program with rework	DSC to provide detailed Tender documentation and Brief and complete Quality Tehnical reviews.	3 - Moderate	C - Possible	M	4/08/2022	PMCA and DSC team to undertake early and regular site Inspections with HC and progressively undertake reviews against documentation. PMCA to ensure sufficient time in program to allow for HC to provide quality workmanship.	3 - Moderate	D - Unlikely	M
12	Risk	Delivery	Delivery of Services Reputation	**Design and Compliance** Non Compliance and delay in issuing the Certificate of occupancy due to Fire, Mech, Electrical, Structural, DDA, approvals, certificates and Design issues.	Engagement of experienced Head Contractor. DSC to undertake early engagement with Building certifier and Fire Engineer to ensure compliance. DSC to undertake layered reviews at each phase by Technical leads to ensure Design is compliant.	5 - Severe	C - Possible	H	4/08/2022	During Tender Phase, offer the HC opportunity to review design and offer alternative solution if required. PMCA to request Design Certificates from HC early during Delivery to support the Certificate of Occupancy. PMCA and DSC to undertake ongoing communication with Building Certifier, Fire Engineer and Regulatory Authorities to ensure compliance.	4 - Major	D - Unlikely	M

PROJECT RISK REGISTER - EST08953 - R2L6

Initial Risk (at initial assessment)									Initiated	Residual Risk (progressive or at Design close out)			
Risk ID	**Risk / Opportunity**	**Facility Area / Lifecycle Stage**	**Hazard**	**Hazardous Event / Scenario**	**Control Measures in Place**	**Consequence Rating (1 - 5)**	**Likelihood Rating (A,B,C,D,E)**	**Risk Level**	**By / Date**	**Improvement Action**	**Consequence Rating (1 - 5)**	**Likelihood Rating (A,B,C,D,E)**	**Risk Level**
13	Risk	Delivery	Delivery of Services Financial	**Site Latent Conditions** Unforeseen issues on site impact cost and program. Latent conditions are outside assumptions and will not be discovered until construction phase begins and demolition complete.	QS to include sufficient risk provision for Latent Conditions in Cost Plan. DSC team to undertake Due Diligence during each Design Phase where practicable, noting that intrusive and destructive inspections are required to mitigate risks. During Delivery Head Contractor to undertake Demolition package and provide a Hold point for Design team to undertake assessment and update drawings to suit for repricing (if required).	4 - Major	B - Likely	H	4/08/2022	s47E(d) [redacted]	3 - Moderate	D - Unlikely	M
14	Risk	Development	Financial	**Project Funding** s47E(d) [redacted]	s47E(d) [redacted]	4 - Major	C - Possible	H	4/08/2022	s47E(d) [redacted]	3 - Moderate	D - Unlikely	M
15	Risk	Delivery	Delivery of Services Financial Security	**Security Incident during construction** Project may be compromised and trigger a security event. Security Incident during construction, causing site to be temporarily shut down while investigations take place, causing delay to program and cost impacts.	[redacted]	4 - Major	C - Possible	H	9/06/2024	[redacted]	4 - Major	D - Unlikely	M
16	Risk	Delivery	Delivery of Services Security	**Access** Site access procedures / change to access restrictions for contractors.	[redacted] Review of contractor security clearances, escorts arranged when required.	4 - Major	B - Likely	H	9/06/2024	PMCA to facilitate regular engagement with stakeholders, neighbours and building to minimise disruption and manage expectations.	4 - Major	C - Possible	H
17	Risk	Delivery	Capability Reputation	**Operation Continuity** During Construction Interruptions and impact to Level 6 occupants and critical capability.	HC to undertake critical works out of hours to minimise impacts to operation continuity. QS has included 4 weeks of out of hours work in Cost Plan. QS to allow risk provision in Cost plan and impact to program for interuptions (Approx. no days).	4 - Major	C - Possible	H	31/10/2024	Ongoing engagement with stakeholders and building occupants highlighting critical activities in program and manage expectations.	4 - Major	D - Unlikely	M
18	Risk	Delivery	Delivery of Services Financial Security	**PED policy** Changes to PED policy requirements during Construction may impact program, budget and accreditation.	s47E(d) [redacted]	2 - Minor	C - Possible	M	31/10/2024	s47E(d) [redacted] Ongoing engagement with key stakeholders to discuss policy impacts.	1 - Insignificant	C - Possible	L

PROJECT RISK REGISTER - EST08953 - R2L6

Initial Risk (at initial assessment)									Initiated	Residual Risk (progressive or at Design close out)			
Risk ID	**Risk / Opportunity**	**Facility Area / Lifecycle Stage**	**Hazard**	**Hazardous Event / Scenario**	**Control Measures in Place**	**Consequence Rating (1 - 5)**	**Likelihood Rating (A,B,C,D,E)**	**Risk Level**	**By / Date**	**Improvement Action**	**Consequence Rating (1 - 5)**	**Likelihood Rating (A,B,C,D,E)**	**Risk Level**
19	Opportunity	Delivery	Financial	**Contract Price** Tender Contract price may deliver full scope (Wing A, B C and D) within Budget.	Design continuation for all wings with delivery methodology to be considered in documentation and RFT.	3 - Moderate	C - Possible	M	31/10/2024	PMCA to consider Full scope option in Program.	2 - Minor	D - Unlikely	L
20	Risk	Development	Financial	s47E(d) [redacted]	s47E(d) [redacted]	4 - Major	B - Likely	H	31/10/2024	s47E(d) [redacted]	3 - Moderate	C - Possible	M
21	Risk	Delivery	Delivery of Services Financial Reputation	**Insolvency of contractor(s)**	Continuous engagement with Contractor. Contractor to meet Tender Requirements (Financial Checks and provide financial assurances). Assessment of Tender Evaluation and Reference Checks as part of the Tender process and requirements.	5 - Severe	C - Possible	H	31/10/2024	PMCA monitor industry and provide site presence.	5 - Severe	D - Unlikely	H
DESIGN RISKS													
22	Opportunity	Development	Security	s47E(d) [redacted]	s47E(d) [redacted]	3 - Moderate	D - Unlikely	M		s47E(d) [redacted]	2 - Minor	D - Unlikely	L
23	Risk	Development	Capability Safety	**Structural** s47E(d) [redacted]		3 - Moderate	D - Unlikely	M			2 - Minor	D - Unlikely	L
24	Risk	Delivery	Delivery of Services	**Goods Lift Access** Lack of availability of a services lift to facilitate t s47E(d) [redacted] materials s47E(d) [redacted]		2 - Minor	C - Possible	M	30/10/2024	PMCA to undertake early engagement with Base Management and EMOS to facilitate project during Delivery.	2 - Minor	D - Unlikely	L

PROJECT RISK REGISTER - EST08953 - R2L6

Initial Risk (at initial assessment)									Initiated	Residual Risk (progressive or at Design close out)			
Risk ID	Risk / Opportunity	Facility Area / Lifecycle Stage	Hazard	Hazardous Event / Scenario	Control Measures in Place	Consequence Rating (1 - 5)	Likelihood Rating (A,B,C,D,E)	Risk Level	By / Date	Improvement Action	Consequence Rating (1 - 5)	Likelihood Rating (A,B,C,D,E)	Risk Level
25	Risk	Development	Capability Safety	Structural s47E(d) [redacted]	s47E(d) [redacted]	4 - Major	C - Possible	H	30/10/2024	s47E(d) [redacted]	3 - Moderate	D - Unlikely	M
26	Risk	Development	Delivery of Services Financial Security	Security s47E(d) [redacted]	QS to include sufficient risk provision for potential design changes and program delays in Cost Plan. s47E(d) [redacted]	4 - Major	B - Likely	H	30/10/2024		4 - Major	B - Likely	H
27	Risk	Delivery	Delivery of Services Financial Security			4 - Major	B - Likely	H			4 - Major	B - Likely	H

PROJECT RISK REGISTER - EST08953 - R2L6													
Initial Risk (at initial assessment)									Initiated	Residual Risk (progressive or at Design close out)			
Risk ID	Risk / Opportunity	Facility Area / Lifecycle Stage	Hazard	Hazardous Event / Scenario	Control Measures in Place	Consequence Rating (1 - 5)	Likelihood Rating (A,B,C,D,E)	Risk Level	By / Date	Improvement Action	Consequence Rating (1 - 5)	Likelihood Rating (A,B,C,D,E)	Risk Level
28	Issue	Development	Delivery of Services Financial Security	s47E(d) [redacted]	s47E(d) [redacted] PMCA and DSC have engaged with the key stakeholders and provided ongoing communication to highlight the potential cost, design and program impacts to the project due to the delay in the AA engagement.	2 - Minor	C - Possible	M	30/10/2024	s47E(d) [redacted]	2 - Minor	D - Unlikely	L
29	Risk	Development	Delivery of Services Financial Safety	**Fire** hydrant hose coverage and extended travel distances performance solution A performance solution is required for the fire hydrant coverage and to address extended travel distances. The risk is the Fire Engineered Solution may not be acceptable to both DEEP and ACTFR, requiring additional measures impacting cost and program.	Fire Engineer engaged by DSC to review non-compiances and propose design solution.	2 - Minor	B - Likely	M	30/10/2024	Early engagement with DEEP and ACTFR to understand attitude to proposed Fire Engineered Solution. DSC will allow for potential Fire Engineered Solution in Cost Plan.	2 - Minor	B - Likely	M
30	Risk	Development	Delivery of Services Financial Safety	**Fire** s47E(d) [redacted]	s47E(d) [redacted]	3 - Moderate	B - Likely	H	30/10/2024	PMCA to organise EMOS/Base Management to provide As Built Documentation and meet on site with DSC to review existing fire services.	3 - Moderate	C - Possible	M
31	Risk	Delivery	Delivery of Services Financial Capability	**Mechanical** s47E(d) [redacted]	[redacted]	3 - Moderate	C - Possible	M	30/10/2024	EMOS/Base Management to provide As Built Documentation. Contractor will need to verify the actual installation on site.	3 - Moderate	C - Possible	M

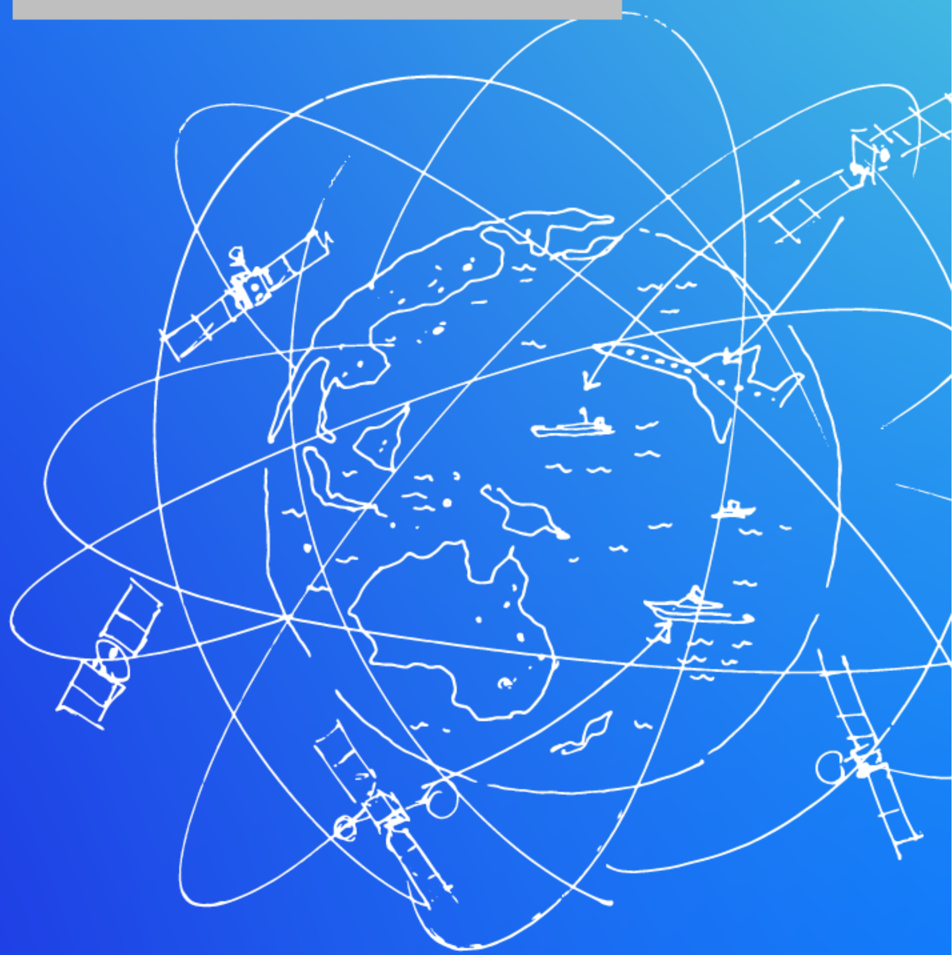
PROJECT RISK REGISTER - EST08953 - R2L6													
Initial Risk (at initial assessment)									Initiated	Residual Risk (progressive or at Design close out)			
Risk ID	Risk / Opportunity	Facility Area / Lifecycle Stage	Hazard	Hazardous Event / Scenario	Control Measures in Place	Consequence Rating (1 - 5)	Likelihood Rating (A,B,C,D,E)	Risk Level	By / Date	Improvement Action	Consequence Rating (1 - 5)	Likelihood Rating (A,B,C,D,E)	Risk Level
32	Risk	Development	Delivery of Services Financial	**Design coordination** Design coordination risk causing impact to budget and program due to potential re-design work required.	Appropriate time allowance in the program for due diligence and design development process. DSC to undertake layered reviews at each phase by Technical leads to ensure Design is compliant.	3 - Moderate	D - Unlikely	M	30/10/2024	PMCA to provide adequate time in program for design coordination in 90% and 100% Design Phase to protect design preocess.	2 - Minor	D - Unlikely	L
33	Risk	Delivery	Delivery of Services Financial	s47E(d) [redacted]	[redacted]	3 - Moderate	C - Possible	M	30/10/2024	PMCA to update program to ensure sufficient time to procure Construction Assurance Contractor during Delivery and undertake early engagement. Refer to Key Lessons Leamt from other projects.	3 - Moderate	C - Possible	M
34	Risk	Delivery	Delivery of Services Legislative Compliance	**NCA Approval** R2L6 Project is an Office refurbishment project and may require a temporary site shed. NCA Approval may be required.	DSC Heritage Lead to investigate process and follow up approval if required.	2 - Minor	C - Possible	M	30/10/2024	QS to allow for required approval in the P80 and PMCA to allow for approval in program.	2 - Minor	C - Possible	M

EST08953 – Russell Offices R2 Level 6 50% Schematic Design Report

Volume 1

Appendix D. Safety in Design Report and Register

Document no: EST08953 s47E(d) [redacted]



Jacobs

EST08953 – Russell Offices, R2 Level 6

Safety in Design Report

EST08953-s47E(d)

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A	15/11/24	50% SDR Issue	s47F [redacted]			

Contents

1. Executive Summary

As part of the design of the Russel R2 Level 6, a 50% Design Safety in Design review has been conducted. As part of the Safety in Design process Jacobs firstly conducted an internal Safety in Design pre-population of Safety in Design Risk Register using a standard set of Hazard guidewords. This was then used as a basis of an external 1.5 hour Safety in Design workshop held on 11th November, 2024. This report outlines the Safety in Design process used, and the outcomes from that workshop.

A total of 17 Risks were identified each with an identified set of improvement actions and resulting risk levels. Refer to Appendix A for the Safety in Design Register form the workshop.

The recommendations made in the workshop are to be considered in the next design phase. The register can be used post Safety in Design workshop to record the project closeout responses to the recommendations and to track the status of closeout.

2. Purpose of the Safety in Design Process

The Commonwealth WHS Act requires designers of project elements to ensure that hazards to workers (and public) throughout the lifecycle are identified and eliminated, or where this is not reasonably practicable, mitigated so far as is reasonably practicable (SFAIRP).

Safety in Design processes aim to eliminate or minimise safety risks that may occur during all phases of the permanent works lifecycle, including, where appropriate: Use / Operations, Maintenance, Demolition / Constructability.

Safety in Design (SiD) workshops are a tool to assist in bringing together designers, constructors, maintainers, end users and other key stakeholders to consult and understand the hazards and risks associated with the designed facility.

3. SCOPE

3.1 Project Overview

The design of the Russel R2 Level 6 consists of the following elements:

- Russell Building 2 Level 6, s47E(d)
- Agile Work Environment (in accordance with DOAG and NAMP requirements)
- Maximum accommodation s47E(d)
- Flexible Offices
- Security Zone s47E(d)
- Conference Rooms with VTC capability
- Communications s47E(d)
  s47E(d)
- IT Systems s47E(d)
- Base Building s47E(d)
- Duress Buttons
- Acoustic Requirements s47E(d)
- Staging Space (Temporary accommodation managed by PMB)
- Operation continuity s47E(d)

3.2 Safety in Design Workshop Overview

The Safety in Design workshop was conducted on the design for the project to identify critical Safety hazards and determining controls for those hazards.

The Safety in Design workshop for this project was held in the following session:

1.5 hour session on the 11th November 2024.

3.3 Safety in Design Methodology

Jacobs conducted an internal Safety in Design pre-population of Safety in Design Risk Register using a standard set of Hazard guidewords as presented in Table 3-1. This was then used as a basis of an external Safety in Design workshop.

A risk assessment process was conducted pre-workshop. The following process was followed:

- Allocation of a consequence severity level and likelihood factor to determine the residual risk rating for each of the identified adverse scenarios, utilising the risk matrix shown in Table 3-2. This was carried out pre and post improvement actions in place (identifying the mitigated risk level).

The workshop was conducted with an 'remote on-line' Jacobs' facilitator.

The method undertaken for the workshops consisted of the following steps:

- General overview of the scope of the facilities was presented by a Project Lead.
- The pre-populated Safety in Design register was then reviewed.
- The Risk scenarios, consequences and likelihoods and improvement actions were reviewed, amended where necessary and documented.
- Additional risk scenarios were identified by the workshop team. These were also documented in the Safety in Design register.

3.4 Safety in Design Guidewords

The Hazard guidewords used to aid the identification of operability, maintainability and constructability hazards and issues are listed in table 3-1 below:

Table 3-1: Safety in Design Guidewords

Hazard Guidewords	
Working at Height	Electricity
Falling Objects	Working at Night / low lighting conditions
Suspended Loads	Noise
Structural Collapse	OH / UG Utilities
Confined Space	Hazardous Substances
Unsafe Access / Egress	Dust / Fumes / Vapours
Water	Security
Moving Plant	Weather
Manual Handling	Other
Fire & Explosion	

3.5 Risk Assessment Criteria

The consequence severity and likelihood parameters and risk rating determinations are provided in Table 3-2 below:

Table 3-2: Risk Matrix

Likelihood	Consequence				
	1 - Minor	2 - Medium	3 - Serious	4 - Major	5 - Critical / Catastrophic
	Insignificant	First Aid Treatment	Medical Treatment	Extensive Injury	Death/Permanent Disability
A - Almost Certain	Medium	High	Extreme / Very High	Extreme / Very High	Extreme / Very High
B - Likely	Medium	Medium	High	Extreme / Very High	Extreme / Very High
C - Possible	Low	Medium	Medium	High	Extreme / Very High
D - Unlikely	Low	Low	Medium	Medium	High

4. Summary of Findings

A total of 17 Risks were identified each with an identified set of improvement actions and resulting risk levels. The detailed worksheet from the Safety in Design workshop is presented in Appendix A.

The register can be used post Safety in Design workshop to record the project closeout responses to the recommendations and to track the status of closeout.

APPENDIX A - Safety in Design Register

JACOBS
11/11/2024

EST08953 - OFFICE EVOLUTION PROGRAM RUSSELL R2 LEVEL 6 - SAFETY IN DESIGN REGISTER									
	Current Risk (at initial assessment)				Final Risk (progressive or at close out assessment)				Close Out
Reference	**Scenario**	**Consequence**	**Likelihood**	**Risk Rating**	**Improvement Action**	**Consequence**	**Likelihood**	**Risk Rating**	**Comments**
A	CONSTRUCTION								
A1	Heavy s47E(d) s47E(d) [redacted]	3 - Serious	C - Possible	Medium	Notation on demolition plan to alert contractor to heavy item (200-300kg) and use mechanical lifting equipment. Understand pathway and identify on the design drawings. Identify in SWMS.	3 - Serious	E - Rare	Low	Risk reduced SFAIRP with respect to the design
A2	Potential for exposure to existing hazardous materials. Asbestos noted on Leve s47E(d) s47E(d) [redacted]	4 - Major	D - Unlikely	Medium	Maintain in current condition if to remain in-situ. If required remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor. To be addressed as part of contractor's SMP and monitored during construction if required.	4 - Major	E - Rare	Medium	Risk reduced SFAIRP with respect to the design
A3	Fall from height while installing tamper resistant screw on roof during construction	5 - Critical / Catastrophic	C - Possible	Extreme / Very High	Notation on drawing to ensure contractor is aware and uses correct fall prevention equipment. To be addressed as part of Contractor's SMP and WHS Plan. Refer Working at Heights Code of Practice. Appropriate handrails, scaffolding and harnesses to be utilised at minimum	5 - Critical / Catastrophic	D - Unlikely	High	Risk reduced SFAIRP with respect to the design
A4	Installation of new Distribution Boards in s47E(d) [redacted] connecting to existing live services, resulting in inadvertent contact and injury - potential fatality.	5 - Critical / Catastrophic	D - Unlikely	High	To be addressed as part of Contractor's SMP and include as a minimum safety checks, permit to work as well as SWMS prior to work commencing. For all work pertaining to LV services, the contractor will need to liaise with the LV controller. The contractor is to assume all services are live despite site data - No work on live electrical services.	5 - Critical / Catastrophic	E - Rare	Medium	Risk reduced SFAIRP with respect to the design
A5	Lifting, transfer and installation of steel purlins s47E(d) s47E(d) s47E(d) [redacted] Risk associated with large/heavy [redacted]ments overhead - dropped objects resulting in crush injuries - potentially fatal	5 - Critical / Catastrophic	C - Possible	Extreme / Very High	Calculate weights and sizes. Reduce to minimum lengths. Constrution to plan how to transfer to level six and into the building s47E(d) [redacted] Contractor SWMS.	5 - Critical / Catastrophic	D - Unlikely	High	Risk reduced SFAIRP with respect to the design

EST08953 - OFFICE EVOLUTION PROGRAM RUSSELL R2 LEVEL 6 - SAFETY IN DESIGN REGISTER									
	Current Risk (at initial assessment)				Final Risk (progressive or at close out assessment)				Close Out
Reference	**Scenario**	**Consequence**	**Likelihood**	**Risk Rating**	**Improvement Action**	**Consequence**	**Likelihood**	**Risk Rating**	**Comments**
A6	Demolition and removal of existing Air Handling Units from s47E(d) s47E(d) [redacted] removal via the Goods Lift. Potential hot work, sharp edges and manual handling hazards resulting in injury.	2 - Medium	C - Possible	Medium	Liaise with AHU suppliers and undertake demolition/dismantling according to manufarcturer's instructions. Calculate weights and sizes and plan how to transfer to lift then transfer to truck/waste depot.	2 - Medium	D - Unlikely	Low	Risk reduced SFAIRP with respect to the design
A7	Inadvertently activate fire system, setting off fire alarms and causing an evacuation. Leading to injury.	2 - Medium	C - Possible	Medium	Design documentation to give clear instruction to contractors to be aware and use Defence Notice of Disruption (NOD) process.	2 - Medium	D - Unlikely	Low	Risk reduced SFAIRP with respect to the design
A8	Building occupant unauthorided access to construction zones resulting in injury.	3 - Serious	D - Unlikely	Medium	Secure boundaries to construction zones, signage and manned entry to prevent unothorised entry.	2 - Medium	D - Unlikely	Low	Risk reduced SFAIRP with respect to the design
A9	Safety of occupants i s47E(d) [redacted] during security incident in construction phase. Risk of injury	2 - Medium	D - Unlikely	Low	DSC and PMCA to liaise with Certifier to approve compliant hoarding plan. s47E(d) s47E(d) [redacted] in place to supervise project security requirements. Adding duress alarm i s47E(d) s47E(d) [redacted]	2 - Medium	E - Rare	Low	Risk reduced SFAIRP with respect to the design
A10	Balcony access dropped objects during lifting operations to s47E(d) [redacted] potential crush injuries	5 - Critical / Catastrophic	C - Possible	Extreme / Very High	Contractor SWMS includes exclusion zones / barricading at ground level. Lifting operation done out of hours	5 - Critical / Catastrophic	E - Rare	Medium	Risk reduced SFAIRP with respect to the design
B	**Operation**								
B1	Muscular skeletal injury in the workplace due to inappropriate workstation and seat heights.	3 - Serious	D - Unlikely	Medium	Provision of electronic adjustable worktops so they can be adjusted to varying user requirements. Adjustible height seats. Provision of instructions on operation. Train the trainer activity to occur prior to occupation.	3 - Serious	E - Rare	Low	Risk reduced SFAIRP with respect to the design
B2	Potential slips on floor vinyl in Brew Areas, tripping on floor finish junctions (eg transition strips)	2 - Medium	C - Possible	Medium	Specification of slip resistant floor surfaces as required under AS4586 and AS4663. Flush finishes between varying services.	2 - Medium	D - Unlikely	Low	Risk reduced SFAIRP with respect to the design

EST08953 - OFFICE EVOLUTION PROGRAM RUSSELL R2 LEVEL 6 - SAFETY IN DESIGN REGISTER									
	Current Risk (at initial assessment)				Final Risk (progressive or at close out assessment)				Close Out
Reference	**Scenario**	**Consequence**	**Likelihood**	**Risk Rating**	**Improvement Action**	**Consequence**	**Likelihood**	**Risk Rating**	**Comments**
B3	Medical episode or incident inside Office/Quiet Room/Meeting Room requiring an Emergency response. Risk of injury or death due to isolation and no oversight from populated areas	5 - Critical / Catastrophic	C - Possible	Extreme / Very High	s47E(d)	5 - Critical / Catastrophic	D - Unlikely	High	Risk reduced SFAIRP with respect to the design
B4	Extended travel distances and short-fall of Fire Hose Reel spray reach, risk of delayed egress form s47E(d) in case of fire.	2 - Medium	C - Possible	Medium	Fire Engineered solution to mitigate risk of extended travel distances. EG, dense detectors, sprinklers in s47E(d) s47E(d)	2 - Medium	D - Unlikely	Low	Risk reduced SFAIRP with respect to the design
C	**Cleaning / Maintenance**								
C1	Restricted access to mechanical ductwork, sprinkler piping, other services etc in ceilings/roof space. Resulting in injury.	4 - Major	C - Possible	High	Ductwork / piping provided within the s47E(d) Povision of ceiling access panels and ceiling access as appropriate. Inspection of grills at the point of crossover s47E(d) s47E(d)	4 - Major	D - Unlikely	Medium	Risk reduced SFAIRP with respect to the design
C2	Inspection of open cable trays (below ceiling tiles) may result in fall from height and injury.	2 - Medium	C - Possible	Medium	Use of platform ladders. Trainer personnel and planning.	2 - Medium	E - Rare	Low	Risk reduced SFAIRP with respect to the design
C3	Balcony access - fall from balcony during lifting operations (eg struck by load).	5 - Critical / Catastrophic	C - Possible	Extreme / Very High	Contractor SWMS	5 - Critical / Catastrophic	D - Unlikely	High	Risk reduced SFAIRP with respect to the design