



CONSTRUCTION - BASELINE RISK PROFILE CAPTURE - NEW PROJECTS

Project Details

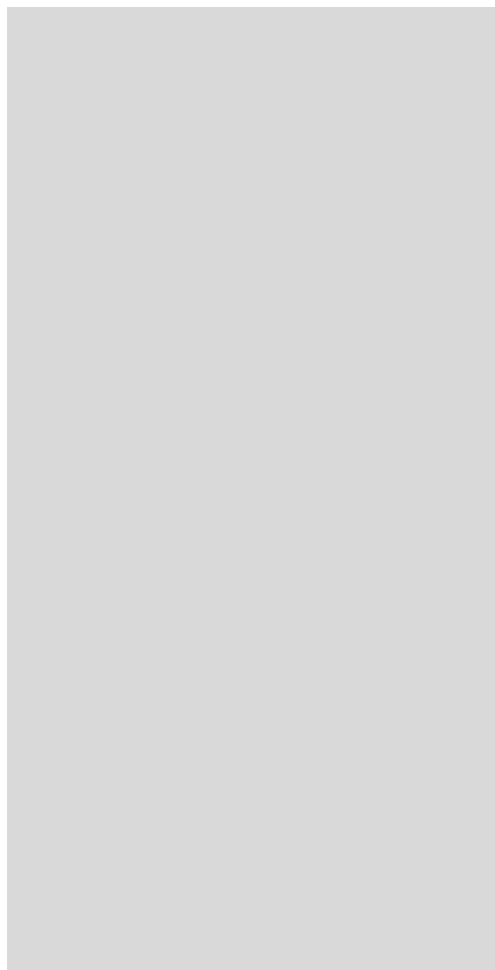
- This page is used to capture details as recorded on the scope of work.

Project Phase Identification

- This page identifies the generic phases of a construction project. Using the table check the phases applicable to the project. (Risk ratings will update automatically as you proceed with the risk review for the project)

Risk Review Process

- This page takes you to the risk rating spreadsheets for the various phases. (refer to the risk matrix and select the risk rating for the specific process involved - at the bottom of the spreadsheet a graph will depict the profile for that phase)





Project Detail Capture Form

Capturing details

Date:	26th July 2022
Time:	12h30
ComPrac Representative:	Dawie Nel

Client and Project Details

Client: (Company Name)	DBSA
Cient Representative	George Kunje
Contact Number:	839,479,177
Project Name:	Kgosi Shope Secondary School
Project Location:	25 6'37.25"S and 26 19'45.46"S
Email contact address:	george@ukuza.co.za
PIN number allocated:	ASA - 0349 - ag - 0322

Project Details

Contract or PC managed:	PC Managed
Principal contractor:	Various through project phases
Number of PC's if relevant:	1
Number of sub-contractors:	6
Duration of Project:	18 Months
Agent if appointed:	PC Managed
Maximum contractors expected:	30
Brief description of scope of work:	
Demolition, New build, BEW, additions to classrooms.	

Project related Information

Size of project (Floor space m ²):	2 800m2
Hot site (Building occupied):	No
Cold site (Building not occupied):	Yes
Number of storeys / Multi level	Ground
Greenfield's development	No
Brownfield's refurbishment	Yes
Any specific hazards foreseen:	
Additions and Alterations to School. Bulk Earthworks, Formwork, Scaffolding, Concrete works, Portable Electrical Work, Hand Tools, COVID-19 and Working at Heights	

Scope of Safety service requirements

Health and Safety specification:	Yes
Site safety file required:	Yes
Meetings to be attended:	Yes
Design Meetings	Yes
Project Meetings	Yes
Safety Meetings	Yes
Close-Out Meeting	Yes
Training needs:	As and when required
Service level required:	2
Duration of Inspections	3 Hours
Overtime required	no
Level of practitioner required:	Multiple
Any additional service related information to be noted:	
Permit Application.	

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Statutory and Administration

1	Health and safety spec from the client or project owner
2	Kick off meeting with professional team
3	Involvement in design meetings
4	Evaluation of principal contractors
5	Kick off meeting with appointed contractors
6	Project managed or contractor managed?
7	Representing client/owner?
8	Representing principal contractor?
9	Representing trade contractor?
10	Project schedule availability
11	Safety representation by contractor?
12	Exposed geographic location of site?
13	Core or local labour?
14	Existing client
15	New client
16	Time available for induction and training
17	Own induction requirements
18	Professional team inductions
19	Covid-19 Management
20	N/A
21	N/A
22	N/A
23	N/A
24	N/A
25	N/A

Enabling Works

1	Lay down area inadequate (Size/location)
2	Fencing of establishment
3	Provision of temporary electrical power
4	Provision of water
5	Sanitation facilities (Temp / portable)
6	Offloading of containers and offices
7	Excavations for temporary cabling
8	Excavations for sewer and water tie-in.
9	Surveying activities
10	Access and egress to lay down establishment
11	Theft
12	Rigging and lifting practices
13	Minor concrete work for slabs
14	Erection of temporary shelters
15	Inadequate supervision during establishment
16	Storm water preparation
17	De watering requirements
18	Soil stabilization
19	Maintenance of Fencing
20	Maintenance of Temporary Electrical power
21	Maintenance of Temporary Shelters
22	N/A
23	N/A
24	N/A
25	N/A

Bulk Earthworks/Demolition

1	Existence of underground services
2	Overhead power lines
3	Exposing and securing identified utilities if required.
4	No perimeter protection
5	Rodents /bees and other vermin
6	Hazardous materials – asbestos etc.
7	Crusher operation
8	Clearing of existing structures
9	Groundwater table destabilizes soil conditions.
10	Transporting and stock piling of material
11	Unsecured work faces where soil has been excavated.
12	Excavating and de-watering
13	Dust and flooding
14	Collapsing of structures and buildings
15	Use of heavy duty construction equipment.
16	Interaction between plant/people.
17	Securing excavated rock faces
18	Backfilling
19	Compacting surface beds
20	Layer works / creating platforms
21	Surveying
22	Mechanical Demolition
23	Soft stripping
24	Removal of rubble
25	N/A

Civils

1	Site establishment (Loading /offloading)
2	Surveying
3	Mechanical excavation
4	Hand excavation
5	Erection and use of batch plants
6	Stockpiling of excavated material
7	Perimeter protection
8	Batching of concrete
9	Fixing of reinforcing
10	Erection and stripping of formwork
11	Use of mobile cranes and lifting tackle
12	Concrete pouring - mechanical pump
13	Erection and use of scaffolding
14	Brickwork
15	Installation of plumbing and other utilities
16	Installation of sewer lines
17	Installation of storm water lines
18	Backfilling and compaction
19	Internal finishes
20	Working at height - multistorey
21	Flooding of excavations
22	Plant and equipment
23	Power supply - generated/temp
24	Hand tool use - portable equipment
25	N/A

Cladding/Roofing/Sheeting

1	Transporting material to site
2	Loading/offloading/storing material
3	Chemicals – use/storage
4	Rolling and cutting of sheeting (IBR.etc.)
5	Stacking and storage of sheeting
6	Handling of sheeting
7	Establishment of mobile cranes
8	Use of truck mounted cranes
9	Use of fork lifts
10	Erection and use of access scaffolding
11	Use of man cages and other man lifters
12	Preparation of access and roof work area
13	Portable electric equipment
14	Hand tools – punches, spanners, drills etc
15	Installation of sag rods
16	Installation of wire tie downs on roof structure
17	Raising insulation material to roof sections
18	Fastening insulation to prepared roof area
19	Hoisting sheeting to roof area and fixing
20	Installation of side sheeting (Method)
21	Installation of louvers / vents and flashing
22	Geographic location – wind exposure
23	Management of waste and other off cuts
24	N/A
25	N/A

Electrical/Instrumentation

1	Transporting material to site
2	Loading/offloading/storing material
3	Chemicals – use/storage
4	Welding and cutting (Hot work)
5	Establishment of mobile cranes
6	Use of truck mounted cranes
7	Use of fork lifts
8	Erection and use of access scaffolding
9	Use of man cages and other man lifters
10	Portable electric equipment
11	Hand tools – punches, spanners, drills etc
12	Provision of temporary construction power
13	Installation of cable trays and supports
14	Installation of transformers and drives
15	Installation of MCC panels
16	Excavations and installation of sleeves
17	Mounting of field control boxes
18	Pulling cable
19	Termination of wiring: Field / MCC
20	Bumping of motors
21	Checking functionality of DCS
22	Lockouts
23	Use of ladders
24	N/A
25	N/A

Mechanical and Piping

1	Transporting material to site
2	Loading/offloading/storing material
3	Chemicals – use/storage
4	De-crating mechanical equipment
5	Welding and cutting (Hot work)
6	Establishment of mobile cranes
7	Use of truck mounted cranes
8	Use of fork lifts
9	Erection and use of access scaffolding
10	Use of man cages and other man lifters
11	Portable electric equipment
12	Hand tools – punches, spanners, drills etc
13	Placement of equipment on prepared bases
14	Installation of pipe supports.
15	On site fabrication requirements
16	Assembly of components
17	Rigging and installation
18	Alignment of equipment
19	Ceramic and rubber lining requirements
20	Painting – touch up
21	Grouting of bases
22	N/A
23	N/A
24	N/A
25	N/A

Structural Steel and Conveyors

1	Surveying
2	Acceptance of anchor points/cast in items
3	Transporting material to site
4	Loading/offloading/storing material
5	Chemicals – use/storage
6	Assembling material – gantry's etc
7	Establishing tower cranes
8	Use of mobile cranes
9	Lifting equipment
10	Preparation of bases
11	Erection and use of access scaffolding
12	Use of man cages and other man lifters
13	Portable electric equipment
14	Hand tools – punches, spanners etc
15	Hot work
16	Bolting and splicing
17	Lifting and erecting structural steel
18	Working at height
19	Painting – touch up
20	Belt pulling and splicing
21	Use of impact wrenches / magbase drills
22	Gas cutting
23	Stacking and storage of material
24	Rigging practices
25	Manual handling requirements

Commissioning

1	Bumping of motors by electrical contractor
2	No clear battery limits set
3	Partial energizing of systems for checks
4	Cold commissioning by contractor
5	Training conveyors
6	System verification checks: MCC/DCS
7	Mechanical correction of deficiencies
8	Erection and use of access scaffolding
9	Lockout / isolation
10	Contractors exposed to live plant
11	Energized areas not identified.
12	No permit to work system in place
13	No handover / take over system
14	N/A
15	N/A
16	N/A
17	N/A
18	N/A
19	N/A
20	N/A
21	N/A
22	N/A
23	N/A
24	N/A
25	N/A

Fit-Out / Refurbishments

1	Perimeter protection
2	Interaction with tenants
3	Restricted working times
4	Environmental considerations (Noise)
5	Demolition involved?
6	Limited or restricted access
7	Availability of storage areas
8	Extent of isolation lockout required
9	Portable electrical equipment
10	Use of scaffolding / ladders /etc
11	External building work –swing scaffolds?
12	Painting
13	Drywall requirements
14	Electrical contractors?
15	Plumbing contractors?
16	N/A
17	N/A
18	N/A
19	N/A
20	N/A
21	N/A
22	N/A
23	N/A
24	N/A
25	N/A

Return to main screen	Applicable to Project	INITIAL REVIEW	FIRST REVIEW	SECOND REVIEW
Statutory and Administration	Yes	8		
Enabling Works	Yes	15		
Bulk Earthworks/Demolition.	Yes	11		
Civils	Yes	11		
Cladding/Roofing/Sheeting	Yes	12		
Electrical/Instrumentation	Yes	12		
Mechanical and Piping	Yes	11		
Structural Steel and Conveyors	Yes	8		
Commissioning	Yes	7		
Fit-Out / Refurbishments	Yes	10		
Provisional project risk rating:	10			0

Graph

LEGEND: 0-5 = LOW RISK
6-10 = MODERATE RISK
11-15 = HIGH RISK
16-25 = UNACCEPTABLE RISK

Indicate by means of a tick which construction phases are applicable to the client.
Once completed assess those sections placing the risk score in the last column.

Note: Do not necessarily ignore other phases and aspects as they have an indirect impact on the client.

TO BE COMPLETED BY PRACTITIONER



RISK REVIEW PER CONSTRUCTION PHASE

PHASE 1: Genral Project requirements. This refers to legal compliance requirements.

PHASE 2: Site establishment and other related enabling works.

PHASE 3: Bulk earthworks, roads and other demolition work.

PHASE 4: Civil construction activities, including preparation work and all concrete related activities.

PHASE 5: Strucutral steel work, including all structural components related to the building.

PHASE 6: Mechanical and piping work. This includes all HVAC and fire system installations.

PHASE 7: Electrical and Instrumentation phase. All electrical reticulation, MCC's and automation.

PHASE 8: Cladding / Sheeting. This includes all roof work pertaining to the installation of new and removal of existing.

PHASE 9: Commissioning. This phase refers to all cold or hot commissioning work required to test systems.

PHASE 10: Refurbishment. This relates to all projects where existing structures or buildings are being refurbished.

PHASE 11: Handover and closeout of project.

PROJECT RISK PROFILE

[Click here to view the current profile of the project per phase reviewed.](#)

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Project Name

Kgosi Shope Secondary School

ASA - 0349 - ag - 0322

**DBSA****Kgosi Shope Secondary School**Project Risk Review Summary Sheet

	APPLICABLE TO PROJECT	INITIAL RATING		FIRST REVIEW	SECOND REVIEW
Statutory and Administration	Yes	10			
Enabling Works	Yes	20			
Bulk Earthworks/Demolition	Yes	15			
Civils	Yes	15			
Cladding/Roofing/Sheeting	Yes	16			
Electrical/Instrumentation	Yes	16			
Mechanical and Piping	Yes	15			
Structural Steel and Conveyors	Yes	10			
Commissioning	Yes	9			
Fit-Out / Refurbishments	Yes	14			
Provisional project risk rating:		13.96		0.00	0.00

[Click to see Graph](#)Number of **Total** Hazard Exposures

	initial review count	Avg rating	First review	Avg Rating	Second Review	Avg Rating
Statutory and Administration	19	10	-		-	
Enabling Works	21	20	-		-	
Bulk Earthworks/Demolition	24	15	-		-	
Civils	24	15	-		-	
Cladding/Roofing/Sheeting	23	16	-		-	
Electrical/Instrumentation	23	16	-		-	
Mechanical and Piping	21	15	-		-	
Structural Steel and Conveyors	25	10	-		-	
Commissioning	13	9	-		-	
Fit-Out / Refurbishments	15	14	-		-	
	208	13.96	-	0.00	-	0.00

LEGEND: LOW RISK 1-5Number of **Medium and High** Hazards Exposures

	initial review count	Avg rating	First review	Avg Rating	Second Review	Avg Rating
Statutory and Administration	12	13.80	-	-	-	-
Enabling Works	15	18.14	-	-	-	-
Bulk Earthworks/Demolition	18	15.00	-	-	-	-
Civils	22	15.29	-	-	-	-
Cladding/Roofing/Sheeting	20	15.50	-	-	-	-
Electrical/Instrumentation	20	16.82	-	-	-	-
Mechanical and Piping	20	16.00	-	-	-	-
Structural Steel and Conveyors	20	12.47	-	-	-	-
Commissioning	5	11.03	-	-	-	-
Fit-Out / Refurbishments	11	17.48	-	-	-	-
	163	15.15	-	-	-	-

LEGEND: MEDIUM RISK 6-10**HIGH RISK 11-15****HIGH RISK****MEDIUM RISK****MEDIUM RISK**Number of **Unacceptable** Hazards Exposures

	initial review count	Avg rating	First review	Avg Rating	Second Review	Avg Rating
Statutory and Administration	-	-	-	-	-	-
Enabling Works	6	26	-	-	-	-
Bulk Earthworks/Demolition	3	22	-	-	-	-
Civils	1	21	-	-	-	-
Cladding/Roofing/Sheeting	2	21	-	-	-	-
Electrical/Instrumentation	1	21	-	-	-	-
Mechanical and Piping	-	-	-	-	-	-
Structural Steel and Conveyors	-	-	-	-	-	-
Commissioning	1	21	-	-	-	-
Fit-Out / Refurbishments	-	-	-	-	-	-
	14	21.96	-	-	-	-

LEGEND: UNACCEPTABLE RISK 16-25

Risk Profile - Phase 1

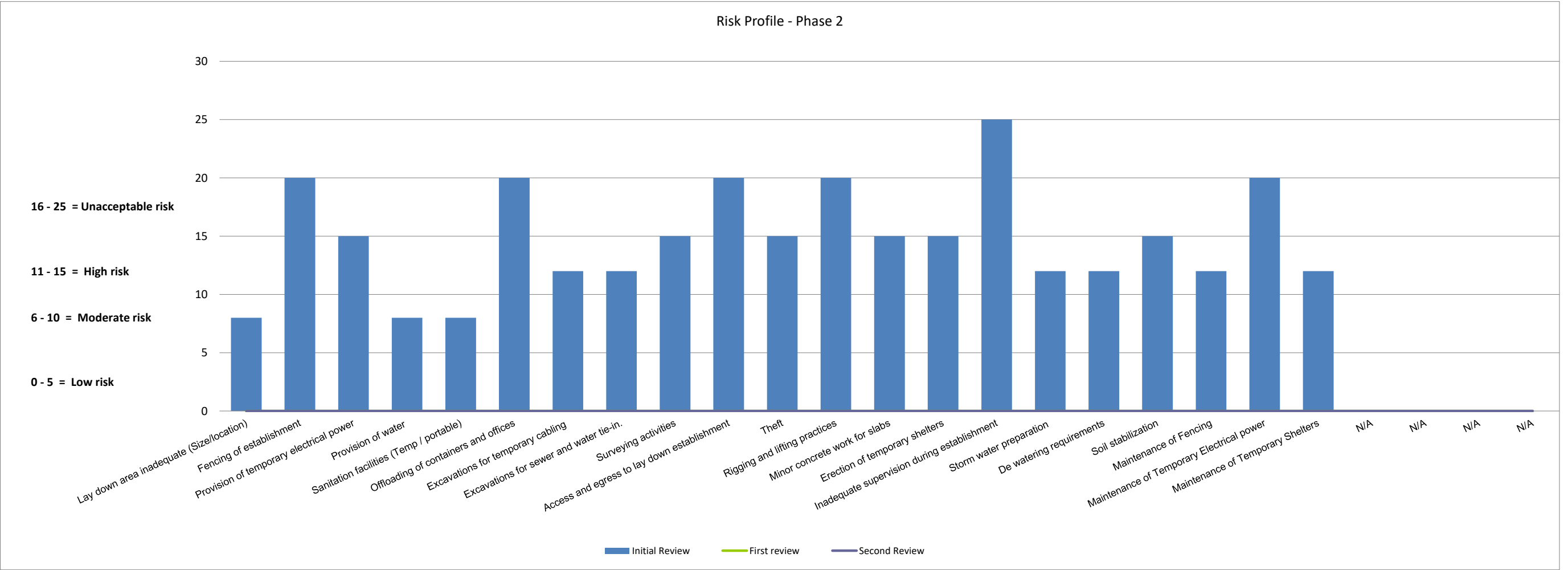
16-25 = Unacceptable risk
11-15 = High risk
6-10 = Moderate risk
0-5 = Low risk

Project Factor	Initial Review	First Review	Second Review
Health and safety spec from the client or project owner	10	0	0
Kick off meeting with professional team	6	0	0
Involvement in design meetings	15	0	0
Evaluation of principal contractors	9	0	0
Kick off meeting with appointed contractors	4	0	0
Project managed or contractor managed?	10	0	0
Representing client/owner?	3	0	0
Representing principal contractor?	12	0	0
Representing trade contractor?	12	0	0
Project schedule availability	10	0	0
Safety representation by contractor?	10	0	0
Exposed geographic location of site?	5	0	0
Core or local labour?	12	0	0
Existing client	2	0	0
New client	1	0	0
Time available for induction and training	12	0	0
Own induction requirements	1	0	0
Professional team inductions	12	0	0
Covid-19 Management	5	0	0
N/A	0	0	0
N/A	0	0	0
N/A	0	0	0
N/A	0	0	0
N/A	0	0	0
N/A	0	0	0

Initial Review First Review Second Review

		COMMENCEMENT					MIDWAY					VIRTUAL COMPLETION						
Project Phase	Hazard / Exposure	Project Related	Initial Exposure Rating					First Risk Review					Second Risk Review					
			L	M	H	U		L	M	H	U		L	M	H	U		
Enabling Works	Lay down area inadequate (Size/location)	Yes		8														
	Fencing of establishment	Yes				20												
	Provision of temporary electrical power	Yes			15													
	Provision of water	Yes		8														
	Sanitation facilities (Temp / portable)	Yes		8														
	Offloading of containers and offices	Yes				20												
	Excavations for temporary cabling	Yes			12													
	Excavations for sewer and water tie-in.	Yes			12													
	Surveying activities	Yes			15													
	Access and egress to lay down establishment	Yes				20												
	Theft	Yes			15													
	Rigging and lifting practices	Yes				20												
	Minor concrete work for slabs	Yes			15													
	Erection of temporary shelters	Yes			15													
	Inadequate supervision during establishment	Yes				25												
	Storm water preparation	Yes			12													
	De watering requirements	Yes			12													
	Soil stabilization	Yes			15													
	Maintenance of Fencing	Yes			12													
	Maintenance of Temporary Electrical power	Yes				20												
	Maintenance of Temporary Shelters	Yes			12													
		N/A																
		N/A																
	N/A																	
	N/A																	

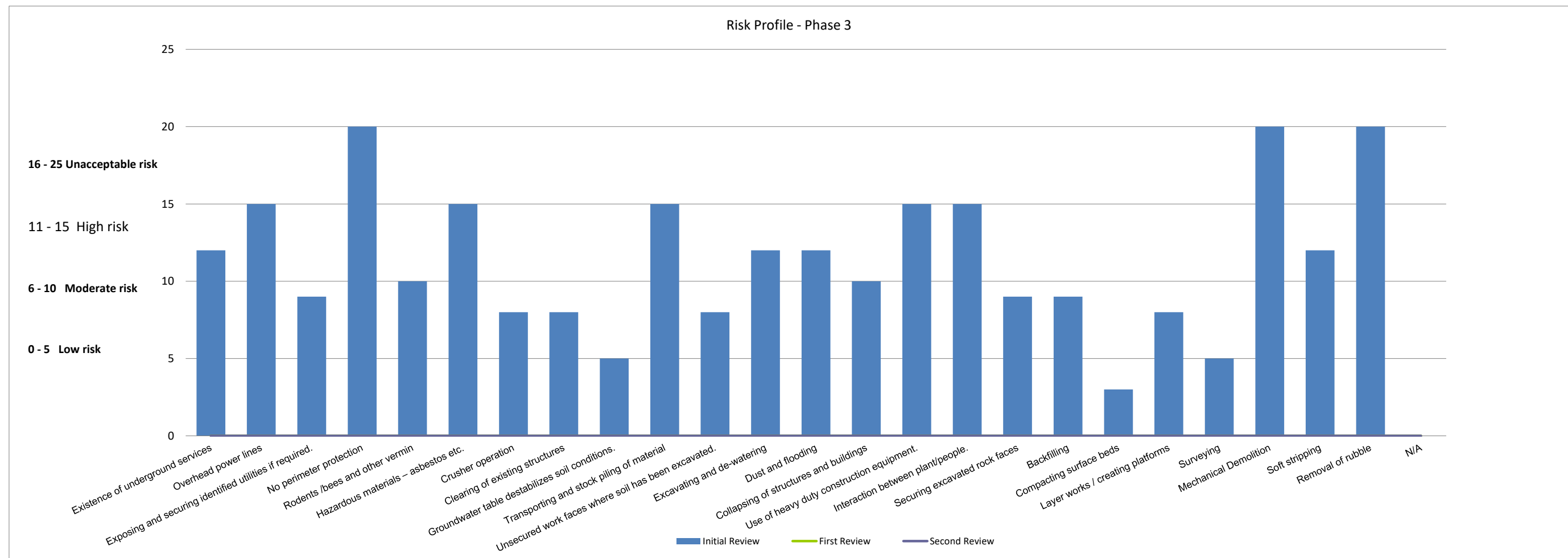
Probability Rating Factors						16 - 25 Unacceptable Risk	
No	Frequency						
5	Common or Daily						
4	Has happened or Weekly						
3	Could happen or Monthly						
2	Not likely or Once a year						
1	Practically impossible or Once in ten years						
Consequence Rating Factors						11 - 15 = High Risk	
No	Safety	Health	Environ	Financial			
				Equip	Product		
5	Fatality	Short	Long	> R1m	> 1shift		
4	Disability	Long	Short	> R300k	4-8 hrs		
3	Lost Time	Temporary	Temporary	> R50k	2-4 hrs		
2	Medical	Irritant	Low	< R50k	1-2 hrs		
1	Minor	Minor	Minor	< R1000	< 1 hr		
Risk Matrix						6-10 = Moderate Risk	
Risk		Probability					
		1	2	3	4		5
Consequence	5	5	10	15	20		25
	4	4	8	12	16		20
	3	3	6	9	12		15
	2	2	4	6	8	10	
	1	1	2	3	4	5	
						0-5 = Low Risk	




			COMMENCEMENT				MIDWAY					VIRTUAL COMPLETION					
Project Phase	Hazard / Exposure	Project Related	Initial Subjective Exposure Rating					First Risk Review					Second Risk Review				
			L	M	H	U			L	M	H	U		L	M	H	U
Bulk Earthworks/Demolition	Existence of underground services	Yes			12												
	Overhead power lines	Yes			15												
	Exposing and securing identified utilities if required.	Yes		9													
	No perimeter protection	Yes				20											
	Rodents /bees and other vermin	Yes		10													
	Hazardous materials – asbestos etc.	Yes			15												
	Crusher operation	Yes		8													
	Clearing of existing structures	Yes		8													
	Groundwater table destabilizes soil conditions.	Yes	5														
	Transporting and stock piling of material	Yes			15												
	Unsecured work faces where soil has been excavated.	Yes		8													
	Excavating and de-watering	Yes			12												
	Dust and flooding	Yes			12												
	Collapsing of structures and buildings	Yes		10													
	Use of heavy duty construction equipment.	Yes			15												
	Interaction between plant/people.	Yes			15												
	Securing excavated rock faces	Yes		9													
	Backfilling	Yes		9													
	Compacting surface beds	Yes	3														
	Layer works / creating platforms	Yes		8													
	Surveying	Yes	5														
	Mechanical Demolition	Yes					20										
	Soft stripping	Yes				12											
	Removal of rubble	Yes				20											
	N/A																

Probability Rating Factors						16 - 25 Unacceptable Risk	
No	Frequency						
5	Common or Daily						
4	Has happened or Weekly						
3	Could happen or Monthly						
2	Not likely or Once a year						
1	Practically impossible or Once in ten years						
Consequence Rating Factors						11 - 15 = High Risk	
No	Safety	Health	Environ	Financial			
				Equip	Product		
5	Fatality	Short	Long	> R1m	> 1shift		
4	Disability	Long	Short	> R300k	4-8 hrs		
3	Lost Time	Temporary	Temporary	> R50k	2-4 hrs		
2	Medical	Irritant	Low	< R50k	1-2 hrs		
1	Minor	Minor	Minor	< R1000	< 1 hr		
Risk Matrix						6-10 = Moderate Risk	
Risk		Probability					
		1	2	3	4		5
Consequence	5	5	10	15	20		25
	4	4	8	12	16		20
	3	3	6	9	12	15	
	2	2	4	6	8	10	
	1	1	2	3	4	5	
0-5 = Low Risk						0-5 = Low Risk	

Risk Profile - Phase 3





Procurement has never been easier

DBSA

Kgosi Shope Secondary School

PHASE 4

		COMMENCEMENT				MIDWAY				VIRTUAL COMPLETION						
Project Phase	Hazard / Exposure	Project Related	Initial Exposure Rating					First Risk Review				Second Risk Review				
			L	M	H	U		L	M	H	U	L	M	H	U	
Civils	Site establishment (Loading /offloading)	Yes			15											
	Surveying	Yes		10												
	Mechanical excavation	Yes		10												
	Hand excavation	Yes		8												
	Erection and use of batch plants	Yes		6												
	Stockpiling of excavated material	Yes		9												
	Perimeter protection	Yes				20										
	Batching of concrete	Yes		6												
	Fixing of reinforcing	Yes		8												
	Erection and stripping of formwork	Yes		9												
	Use of mobile cranes and lifting tackle	Yes		9												
	Concrete pouring - mechanical pump	Yes		10												
	Erection and use of scaffolding	Yes			15											
	Brickwork	Yes			15											
	Installation of plumbing and other utilities	Yes			15											
	Installation of sewer lines	Yes			12											
	Installation of storm water lines	Yes			12											
	Backfilling and compaction	Yes			12											
	Internal finishes	Yes		10												
	Working at height - multistorey	Yes		10												
	Flooding of excavations	Yes	5													
	Plant and equipment	Yes			15											
	Power supply - generated/temp	Yes			15											
	Hand tool use - portable equipment	Yes		8												
	N/A															

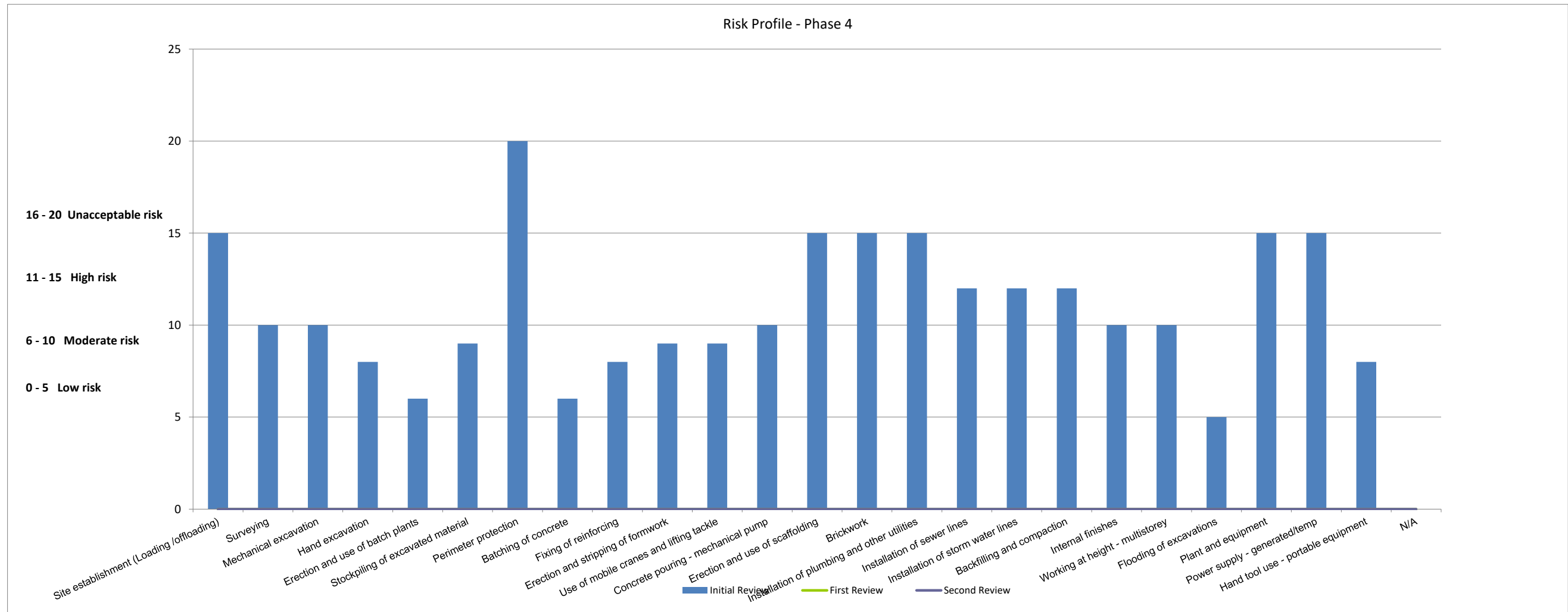
Probability Rating Factors						
No	Frequency					
5	Common or Daily					
4	Has happened or Weekly					
3	Could happen or Monthly					
2	Not likely or Once a year					
1	Practically impossible or Once in ten years					
Consequence Rating Factors						
No	Safety	Health	Environ	Financial		
				Equip	Product	
5	Fatality	Short	Long	> R1m	> 1shift	
4	Disability	Long	Short	> R300k	4-8 hrs	
3	Lost Time	Temporary	Temporary	> R50k	2-4 hrs	
2	Medical	Irritant	Low	< R50k	1-2 hrs	
1	Minor	Minor	Minor	< R1000	< 1 hr	
Risk Matrix						
Risk	Probability					
	1	2	3	4	5	
Consequence	5	5	10	15	20	25
	4	4	8	12	16	20
	3	3	6	9	12	15
	2	2	4	6	8	10
	1	1	2	3	4	5

16 - 25 Unacceptable Risk

11 - 15 High Risk

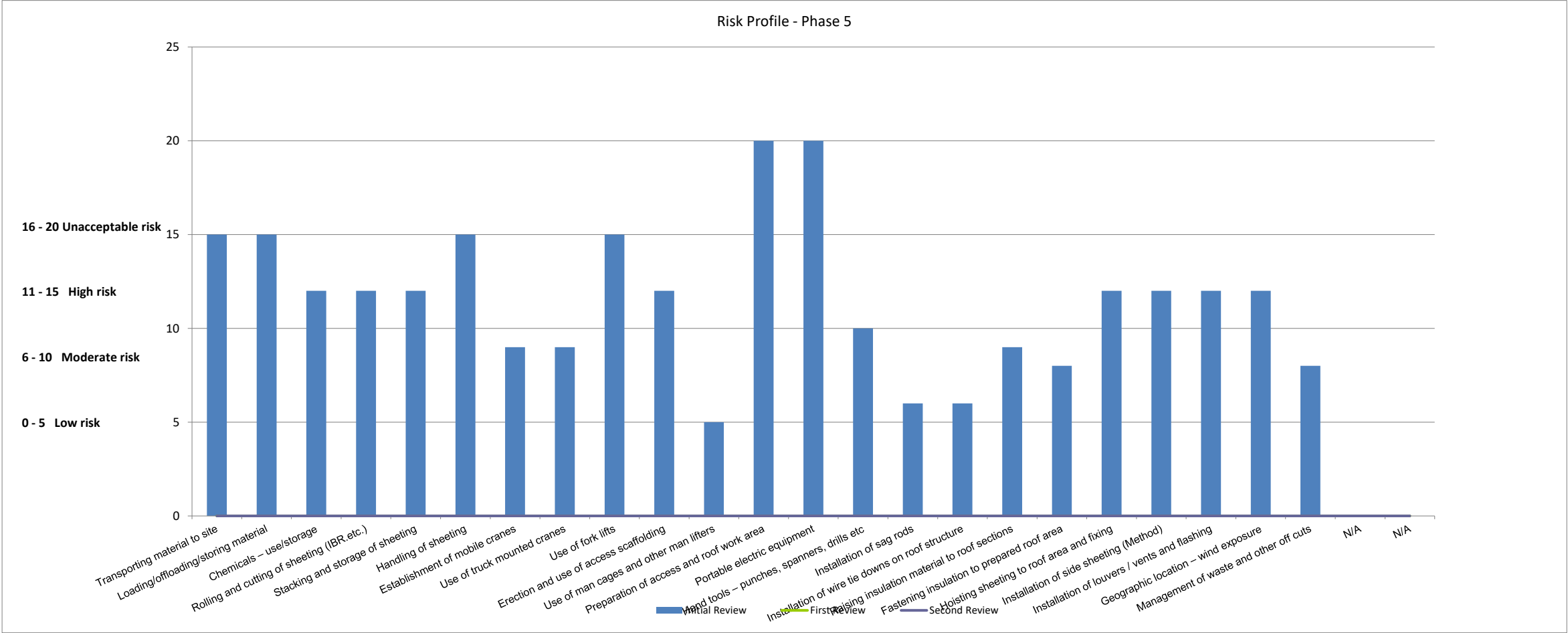
6-10 Moderate Risk


0-5 Low Risk



Project Phase	Hazard / Exposure	Project Related	Initial Exposure Rating					First Risk Review					Second Risk Review				
			L	M	H	U		L	M	H	U		L	M	H	U	
Cladding/Roofing/Sheeting	Transporting material to site	Yes			15												
	Loading/offloading/storing material	Yes			15												
	Chemicals – use/storage	Yes			12												
	Rolling and cutting of sheeting (IBR.etc.)	Yes			12												
	Stacking and storage of sheeting	Yes			12												
	Handling of sheeting	Yes			15												
	Establishment of mobile cranes	Yes		9													
	Use of truck mounted cranes	Yes		9													
	Use of fork lifts	Yes			15												
	Erection and use of access scaffolding	Yes			12												
	Use of man cages and other man lifters	Yes	5														
	Preparation of access and roof work area	Yes				20											
	Portable electric equipment	Yes				20											
	Hand tools – punches, spanners, drills etc	Yes		10													
	Installation of sag rods	Yes		6													
	Installation of wire tie downs on roof structure	Yes		6													
	Raising insulation material to roof sections	Yes		9													
	Fastening insulation to prepared roof area	Yes		8													
	Hoisting sheeting to roof area and fixing	Yes				12											
	Installation of side sheeting (Method)	Yes				12											
	Installation of louvers / vents and flashing	Yes				12											
	Geographic location – wind exposure	Yes				12											
	Management of waste and other off cuts	Yes			8												
	N/A																
	N/A																

Probability Rating Factors						16 - 25 Unacceptable Risk	
No	Frequency						
5	Common or Daily						
4	Has happened or Weekly						
3	Could happen or Monthly						
2	Not likely or Once a year						
1	Practically impossible or Once in ten years						
Consequence Rating Factors						11 - 15 = High Risk	
No	Safety	Health	Environ	Financial			
				Equip	Product		
5	Fatality	Short	Long	> R1m	> 1shift		
4	Disability	Long	Short	> R300k	4-8 hrs		
3	Lost Time	Temporary	Temporary	> R50k	2-4 hrs		
2	Medical	Irritant	Low	< R50k	1-2 hrs		
1	Minor	Minor	Minor	< R1000	< 1 hr		
Risk Matrix						6-10 = Moderate Risk	
Risk		Probability					
		1	2	3	4		5
Consequence	5	5	10	15	20		25
	4	4	8	12	16		20
	3	3	6	9	12		15
	2	2	4	6	8		10
	1	1	2	3	4	5	
						0-5 = Low Risk	





Procurement has never been easier

COMMENCEMENT

MIDWAY

VIRTUAL COMPLETION

Project Phase	Hazard / Exposure	Project Related	Initial Exposure Rating					First Risk Review					Second Risk Review			
			L	M	H	U		L	M	H	U		L	M	H	U
Electrical/Instrumentation	Transporting material to site	Yes			15											
	Loading/offloading/storing material	Yes			15											
	Chemicals – use/storage	Yes			12											
	Welding and cutting (Hot work)	Yes			12											
	Establishment of mobile cranes	Yes		10												
	Use of truck mounted cranes	Yes		10												
	Use of fork lifts	Yes		10												
	Erection and use of access scaffolding	Yes			12											
	Use of man cages and other man lifters	Yes		10												
	Portable electric equipment	Yes				20										
	Hand tools – punches, spanners, drills etc	Yes		10												
	Provision of temporary construction power	Yes			12											
	Installation of cable trays and supports	Yes			12											
	Installation of transformers and drives	Yes			15											
	Installation of MCC panels	Yes			12											
	Excavations and installation of sleeves	Yes			12											
	Mounting of field control boxes	Yes			12											
	Pulling cable	Yes		9												
	Termination of wiring: Field / MCC	Yes			12											
	Bumping of motors	Yes	5													
	Checking functionality of DCS	Yes			15											
	Lockouts	Yes	5													
	Use of ladders	Yes		8												
	N/A															
	N/A															

Probability Rating Factors

No	Frequency
5	Common or Daily
4	Has happened or Weekly
3	Could happen or Monthly
2	Not likely or Once a year
1	Practically impossible or Once in ten years

Consequence Rating Factors

No	Safety	Health	Environ	Financial	
				Equip	Product
5	Fatality	Short	Long	> R1m	> 1shift
4	Disability	Long	Short	> R300k	4-8 hrs
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2	Medical	Irritant	Low	< R50k	1-2 hrs
1	Minor	Minor	Minor	< R1000	< 1 hr

Risk Matrix

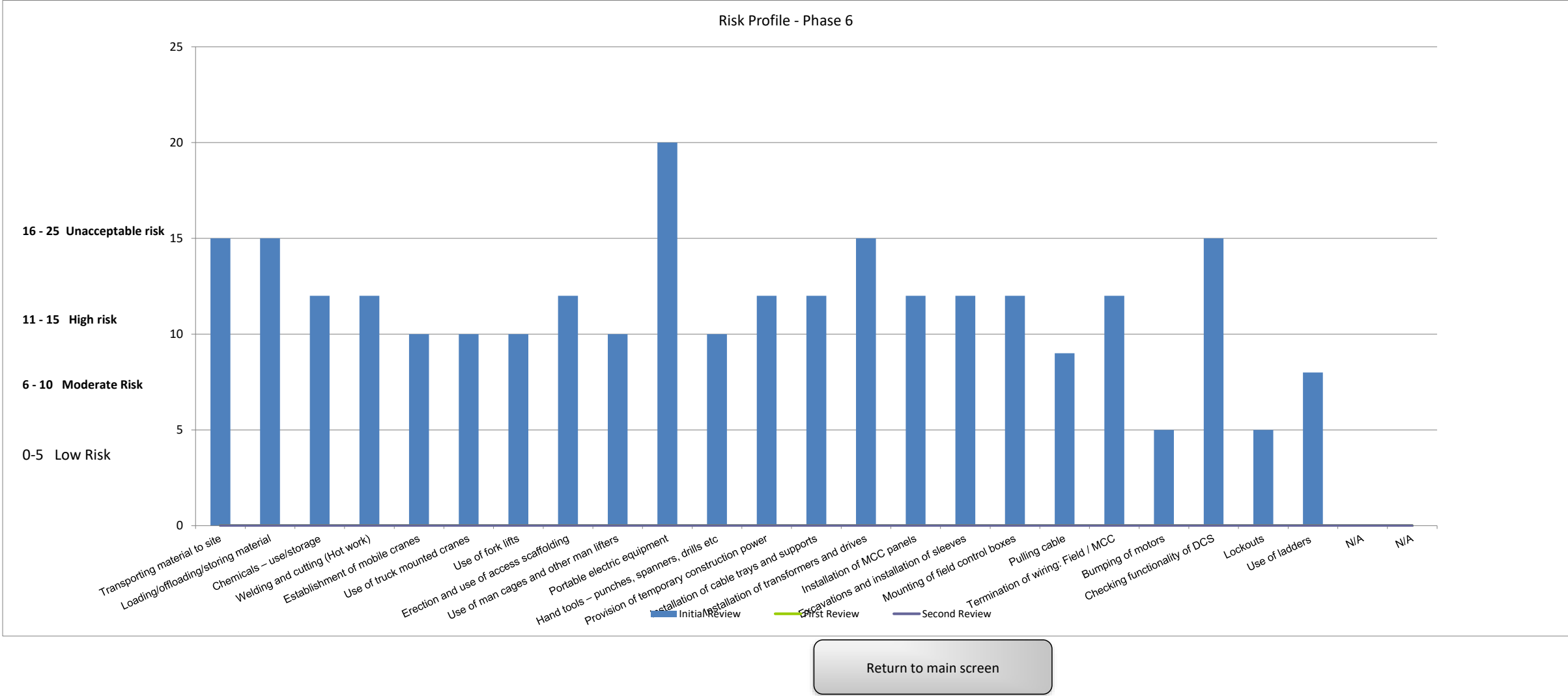
Risk	Probability					
	1	2	3	4	5	
Consequence	5	5	10	15	20	25
	4	4	8	12	16	20
	3	3	6	9	12	15
	2	2	4	6	8	10
	1	1	2	3	4	5

16 - 25 Unacceptable Risk

11 - 15 High Risk

6-10 Moderate Risk

0-5 Low Risk



COMMENCEMENT

MIDWAY

VIRTUAL COMPLETION

Project Phase	Hazard / Exposure	Project Related	Initial Exposure Rating					First Risk Review					Second Risk Review			
			L	M	H	U		L	M	H	U		L	M	H	U
Mechanical and Piping	Transporting material to site	Yes			15											
	Loading/offloading/storing material	Yes			15											
	Chemicals – use/storage	Yes			12											
	De-crating mechanical equipment	Yes		9												
	Welding and cutting (Hot work)	Yes		9												
	Establishment of mobile cranes	Yes			15											
	Use of truck mounted cranes	Yes			15											
	Use of fork lifts	Yes		9												
	Erection and use of access scaffolding	Yes			12											
	Use of man cages and other man lifters	Yes	4													
	Portable electric equipment	Yes			12											
	Hand tools – punches, spanners, drills etc	Yes			12											
	Placement of equipment on prepared bases	Yes		9												
	Installation of pipe supports.	Yes			12											
	On site fabrication requirements	Yes			12											
	Assembly of components	Yes			12											
	Rigging and installation	Yes			12											
	Alignment of equipment	Yes		9												
	Ceramic and rubber lining requirements	Yes		9												
	Painting – touch up	Yes		6												
	Grouting of bases	Yes		6												
	N/A															
	N/A															
	N/A															
	N/A															

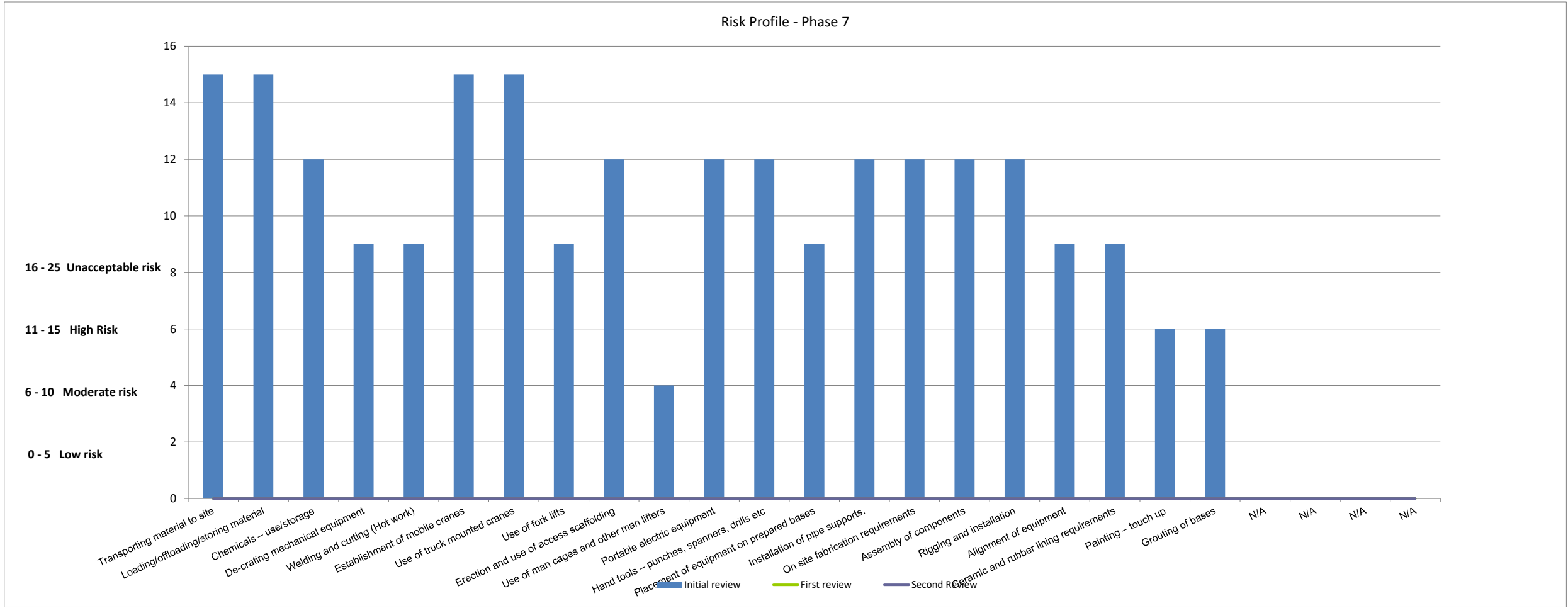
Probability Rating Factors						16 - 25 Unacceptable Risk	
No	Frequency						
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4	Has happened or Weekly						
3	Could happen or Monthly						
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1	Practically impossible or Once in ten years						
Consequence Rating Factors						11 - 15 = High Risk	
No	Safety	Health	Environ	Financial			
				Equip	Product		
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Risk Matrix						6-10 = Moderate Risk	
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Consequence	5	5	10	15	20		25
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	3	3	6	9	12		15
	2	2	4	6	8	10	
	1	1	2	3	4	5	
						0-5 = Low Risk	

16 - 25 Unacceptable Risk

11 - 15 High Risk

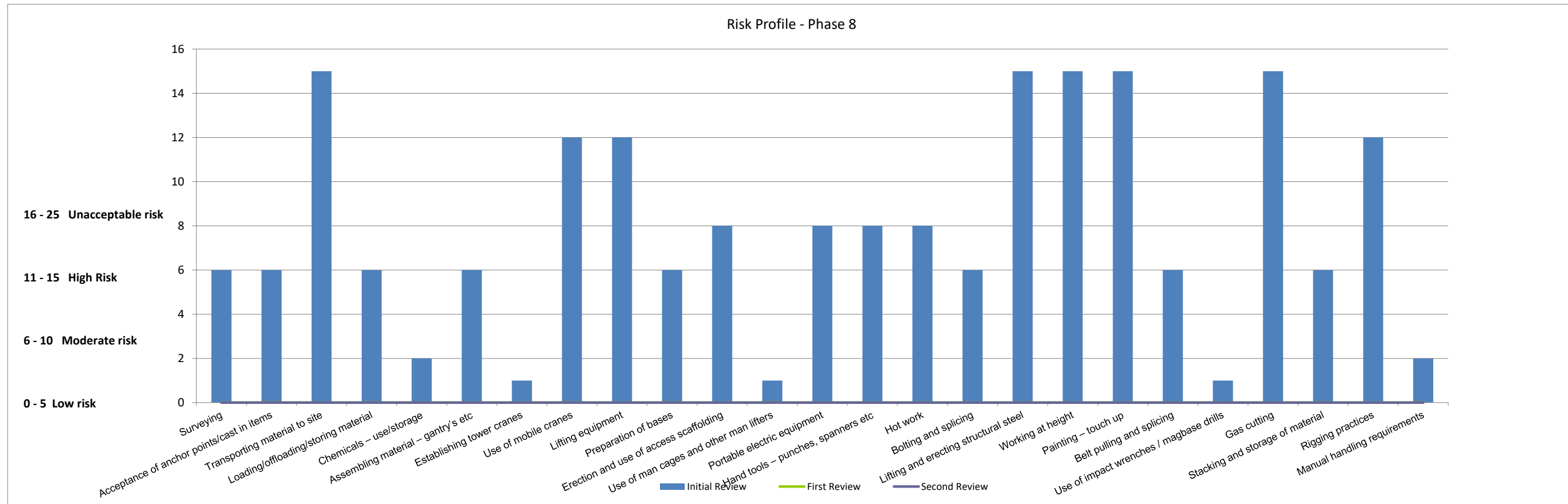
6 - 10 Moderate Risk

0 - 5 Low Risk



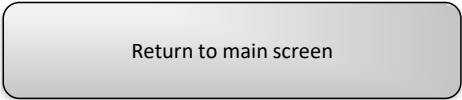
			COMMENCEMENT					MIDWAY					VIRTUAL COMPLETION			
Project Phase	Hazard / Exposure	Project Related	Initial Exposure Rating					First Risk Review					Second Risk Review			
			L	M	H	U		L	M	H	U		L	M	H	U
Structural Steel and Conveyors	Surveying	Yes		6												
	Acceptance of anchor points/cast in items	Yes		6												
	Transporting material to site	Yes			15											
	Loading/offloading/storing material	Yes		6												
	Chemicals – use/storage	Yes	2													
	Assembling material – gantry's etc	Yes		6												
	Establishing tower cranes	Yes	1													
	Use of mobile cranes	Yes			12											
	Lifting equipment	Yes			12											
	Preparation of bases	Yes		6												
	Erection and use of access scaffolding	Yes		8												
	Use of man cages and other man lifters	Yes	1													
	Portable electric equipment	Yes		8												
	Hand tools – punches, spanners etc	Yes		8												
	Hot work	Yes		8												
	Bolting and splicing	Yes		6												
	Lifting and erecting structural steel	Yes			15											
	Working at height	Yes			15											
	Painting – touch up	Yes			15											
	Belt pulling and splicing	Yes		6												
	Use of impact wrenches / magbase drills	Yes	1													
	Gas cutting	Yes			15											
	Stacking and storage of material	Yes		6												
	Rigging practices	Yes			12											
	Manual handling requirements	Yes	2													

Probability Rating Factors						16 - 25 Unacceptable Risk	
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	2	2	4	6	8	10	
	1	1	2	3	4	5	
						0-5 = Low Risk	





Probability Rating Factors						16 - 25 Unacceptable Risk	
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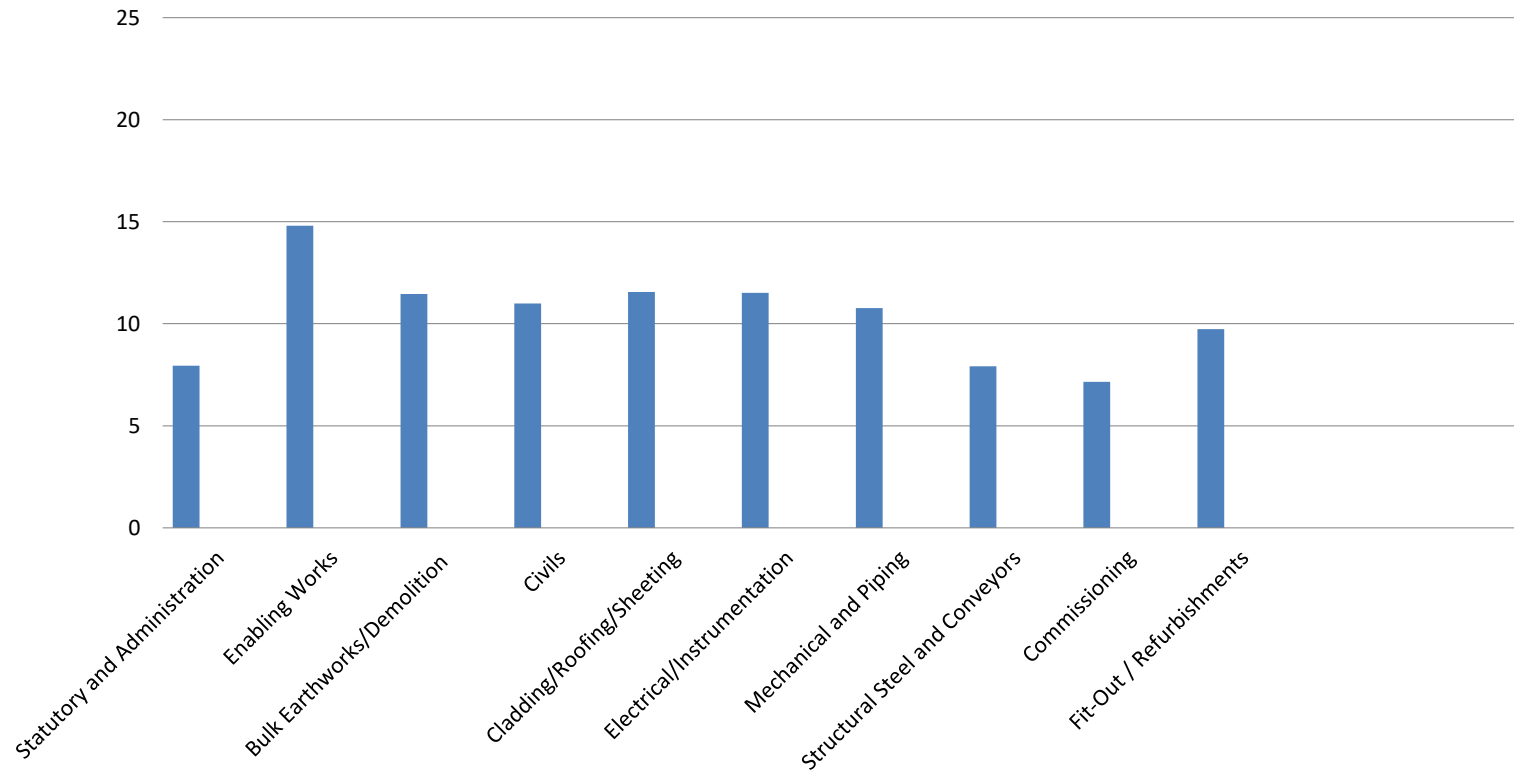


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PROJECT RISK PROFILE PER PHASE



UNACCEPTABLE

HIGH

MEDIUM

LOW

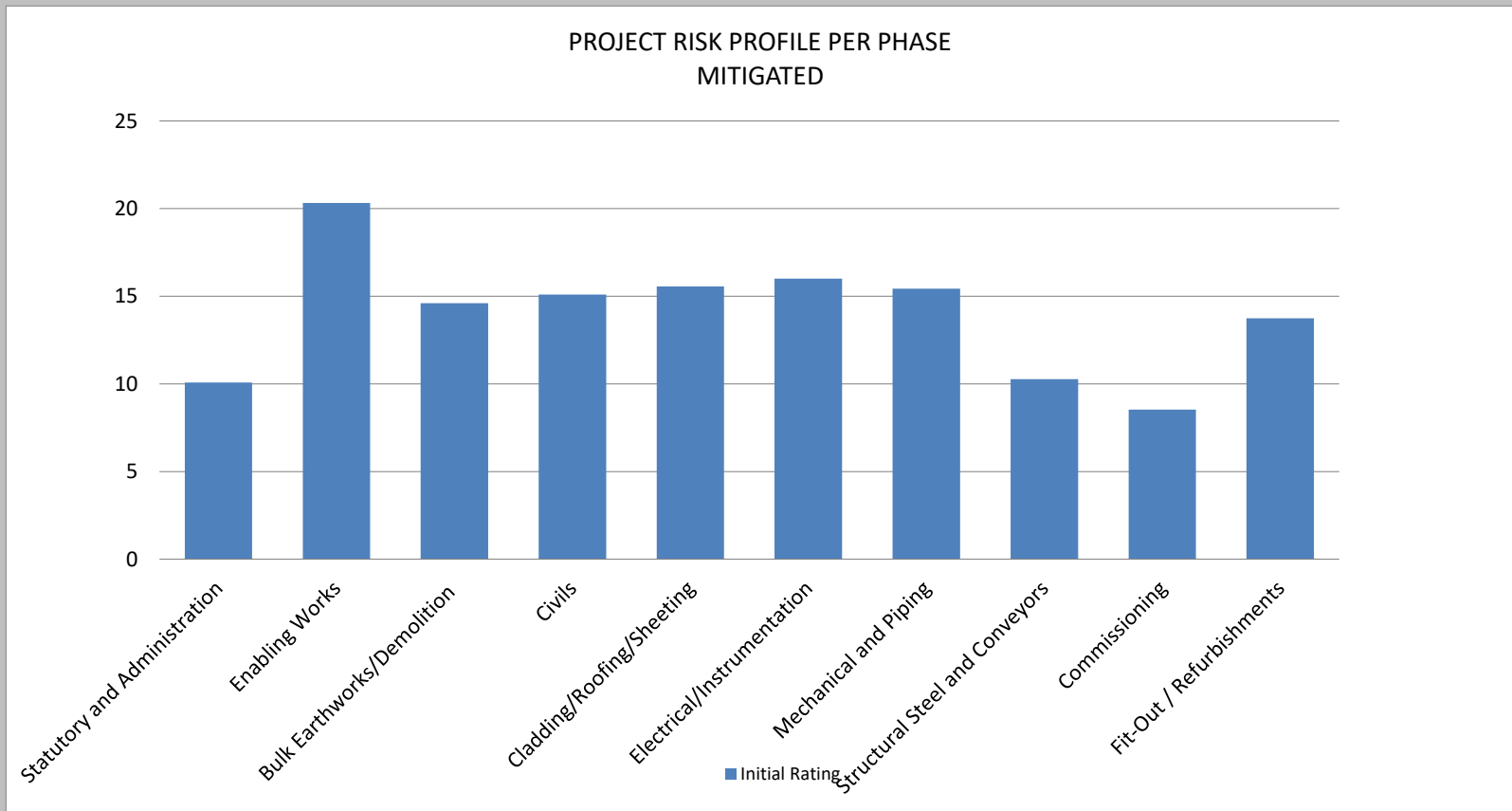
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