



Technical Submittal 023

Emergency Lighting Central Battery Capacity & Distribution Calculations

NSE-SES-TS-E-023

Status S3 - Suitable for review & comment
Rev - P01

DOCUMENT STATUS

Document Status				
Revision	A			
Date	13/09/2024			
Author	B Dickinson			
Checked	B Green			
Verified	D Hudson			

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Executive Summary

The purpose of this technical submittal is to provide the reader with an overview of the Emergency Lighting Central Battery Capacity & Distribution Calculations for the MCFC North Stand Development.

Appendix A - Basis of Design

- Document No: NSE-MEE-NS-XX-TS-E-008001 RIBA Stage 4a Interim
Revision: P01
- Document No: NSE-MEE-NS-XX-TS-E-008002 RIBA Stage 4a
Revision: P01
- Document No: NSE-MEE-NS-XX-LS-E-008001 RIBA Stage 4a Interim
Revision: P02

Appendix B - Manufacturers Details

Company Name: Park Electrical

Email: paulwatson@park-electrical.co.uk

Tel: 0191 497 0700

Web: www.parklightingdesign.co.uk

Appendix C - Technical Literature

As per technical data attached - see appendix H.

Appendix D - Compliance

In line with the electrical specification and equipment schedule:

- Document No: NSE-MEE-NS-XX-TS-E-008001 RIBA Stage 4a Interim
Revision: P01
- Document No: NSE-MEE-NS-XX-TS-E-008002 RIBA Stage 4a
Revision: P01
- Document No: NSE-MEE-NS-XX-LS-E-008001 RIBA Stage 4a Interim
Revision: P02

Appendix E - Non -Compliance

N/A

Appendix F - Programme

The Purpose of this technical submission is to inform the Etihad client team and professional team of SES intent regards to procurement of systems and equipment to enable input into the MEP design and therefore complete the systems MEP design.

The Technical submission is by no means intended to show full systems design by the way of MEP design drawings and schematics.

Drawings and Schematics will follow once technical submissions have reached A or B status and the technical information from within the approved submission has been inputted into the MEP design.

Appendix G - Drawing Reference

N/A

Appendix H - Attachments

Project Number: SY0523-27
Project Name: MCFC Redevelopment (North Stand)
Date: 10.09.2024

REF	Manufacturer	Product Name	Product Code	Wattage	QTY	Total W
NB01E	Thorn	Aquaforce Pro	96630794	29.9	128	3827.2
NB02E	Thorn	DuoProof 2	96636089	30.9	12	370.8
SE	LightForms	Lightplane 2.5	LP2.5-S-1200-LED-MED-3000-90-DALI-EXT-RAL9005	29.2	34	992.8
S3E	LightForms	Lightplane 2.5	LP2.5-S-1200-LED-LOW-3000-90-DALI-EXT-RAL9005	15.9	56	890.4
EMG01	Mackwell	XYLUX LRX HO	?	5	65	325
EMG01(ES)	Mackwell	XYLUX LRX HO	?	5	69	345
EMG02	Mackwell	XYLUX LDX-HO NA BLACK	?	6	145	870
EMG02(ES)	Mackwell	XYLUX LDX-HO NA BLACK	?	6	31	186
EXIT3-L	Mackwell	XYVEX EXC (Wall Mounted - LEFT Legend)	?	3	30	90
EXIT3-R	Mackwell	XYVEX EXC (Wall Mounted - RIGHT Legend)	?	3	30	90
EXIT3-U	Mackwell	XYVEX EXC (Wall Mounted - UP Legend)	?	3	66	198
EXIT4-L/R	Mackwell	XYVEX EXC (Suspended - LEFT/RIGHT Legend)	?	3	12	36
EXIT4-U	Mackwell	XYVEX EXC (Suspended - UP Legend)	?	3	13	39
XGE (CB)	Philip Payne	MF100	MF10006DAG	6	12	72
XHE	Thorn	Contrast (CONT3 36L105 830 WB HFX SP GY)	?	117	13	1521
XME	Thorn	Chalice (CHAL3 150 1400 830 HFIX RSB IP65)	?	12.3	5	61.5
					TOTAL	9914.7