

To: CORPORATE SERVICES (LICENSING) SUB-COMMITTEE		Subject: SAFETY OF SPORTS GROUNDS CERTIFICATION ARRANGEMENTS - EXCELSIOR STADIUM, AIRDRIE
From: HEAD OF BUSINESS FOR LEGAL AND DEMOCRATIC SOLUTIONS		
Date: 28 July 2016	Ref: LD/RM	

1. **Introduction**

- 1.1. The Council has adopted practices in relation to its responsibilities for the certification of "Designated Sports Grounds" in North Lanarkshire and agreed to the establishment of a Safety of Sports Grounds Officer Working Group representing a variety of disciplines which assist the process of certification.
- 1.2. The Council has also agreed that a programme of annual inspections be established and over the past few months, Officers of the Working Group have carried out inspections at Excelsior Stadium, Airdrie, and met with representatives from the Stadium Management to discuss a number of issues relating to the General Safety Certificate for the ground.

2. **Current Position**

As a result of these inspections, a number of issues have been identified as requiring attention, details of which have been passed to the Stadium Management:

(a) **Electrical Installations**

- The Council appointed RYBKA, Consultants, in May 2015 to inspect the electrical installations at each of the four stadia in North Lanarkshire.
- Attached, as Appendix 1 to this report, is a report by RYBKA providing commentary on works which had been carried out at the Stadium to the electrical distribution system following on from the RYBKA site inspection in May 2015. Setting out in Section 3 of the report, details of the status of upgrading and repair works which had been recommended for action in 2015.
- Attached as Appendix 2 to this report, is a report by RYBKA providing commentary on works which had been carried out at the Stadium to the existing emergency lighting installations following on from the RYBKA site inspection in May 2015. Setting out in Section 2 of the report, details of the status of upgrading and repair works which had been recommended for action in 2015.

(b) **Fire Safety**

In relation to the gymnasium located within the concourse (which forms the means of escape) of the North Stand, items of equipment which serve the gymnasium that are combustible or cause an obstruction should be removed when the North Stand seating is occupied in any capacity. The duty holder of the gymnasium should also be aware that all fire exits within the North Stand must be freely available at all times, not only during events, but when this Stand is occupied by individuals.

(c) **Calculating the Safe Capacity of a Sports Ground**

In accordance with Section 2 of the Guide to Safety at Sports Grounds, detailed calculations and drawings for the safe capacity of all parts of the Stadium should be submitted to the Council.

3. **Recommendation**

It is recommended that the Sub-Committee hear verbal updates on any outstanding issues by the appropriate officers and from the Stadium Management at Excelsior Stadium, and consider the renewal of the General Safety Certificate accordingly.



Head of Business for Legal and Democratic Solutions

NORTH LANARKSHIRE COUNCIL
CONDITIONING REPORT ON THE ELECTRICAL DISTRIBUTION SYSTEM
EXCELSIOR FOOTBALL STADIUM

1.0 INTRODUCTION

This addendum report has been prepared at the request of North Lanarkshire Council to provide commentary on works carried out at the Excelsior Football Stadium to the electrical distribution system following on from the Rybka 2015 site inspection of May 2015

The information contained within this report has been obtained from the following:

- Undertaking a visual inspection carried out on the visible parts of the electrical distribution system.
- From on-site discussions with the staff
- From reviewing the current electrical 'test' sheets

No electrical tests were undertaken on any electrical cables.

No manually operated isolator switches, MCCB's, MCB's or RCBO's were activated, to prove whether or not they were still operating correctly.

Those parts of the electrical installation which have been built-in, covered up or made inaccessible within the normal course of construction, fitting out or occupation were not inspected. Consequently, liability is not accepted for any faults which may become apparent at a later date due to a concealed defect.

The existing standby generator sets were not tested during our inspection of the electrical distribution system.

Our comments and recommendations on the condition of the electrical distribution system relate to the condition of the existing electrical equipment and cable installations installed and highlights any departures from the current standards & regulations, and does not constitute a check on the performance of the installations currently in use.

This addendum report should be read in conjunction with the Rybka document;
'Conditioning Report on the Electrical Distribution System, Excelsior Football Stadium' Dated 29th May 2015.

2.0 ELECTRICAL TEST SHEETS, 'O&M' MANUAL AND 'AS FITTED' DRAWINGS

Annual Test:

The annual electrical test should include for the testing of 20% of all sub-mains power cables and the testing of 20% of all outgoing lighting and power circuit cables from each distribution board. Different lighting and power circuits should be tested during the annual testing exercise.

Five Year Test:

The five yearly electrical test should include for a 100% testing of all sub-mains power cables and a 100% testing of all lighting and power circuit cables have been completed over the 5 year period.

The electrical test sheets for the stadium, dated 4th April 2015 were inspected and confirmed the following:

- That 60% of the final outgoing circuits from the distribution boards have been tested
- That all sub-mains cables have been tested.
- There are no non-compliance test results for any of the circuits/cables tested.
- That the electrical test results provided comply with the requirements set out within Part 4 : Protection for Safety, and Part 6 : Inspection and Testing, of BS.7671 (IET Wiring Regulations).

The electrical test sheets highlight a number of action points that need to be undertaken to ensure the safety of the electrical installation installed throughout the stadium (12No. Items).

The stadium operators have been and continue to carry out 20% testing of electrical circuits annually with electrical contractors due to return to the stadium to continue periodic testing from the 16th of May 2016.

Albeit that sample testing on the electrical cables/wiring systems has been carried out the exercise undertaken does not automatically provide any certification nor guarantee that the 'whole' electrical installation is electrically safe and fully compliant with BS.7671 and the 'Electricity at Work Regulations 1989'.

Although there is no set guidelines within BS.7671 or the 'Electricity at Work Regulation 1989' to advise on the extent of electrical testing required or the time periods on when electrical testing should be carried out, it is recognised throughout the electrical industry that, for this particular building, sample testing (in the region of 20%+) should be carried out annually with a 100% electrical testing programme conducted every 5 Years.

A record of all electrical repairs carried out on the electrical installation is achieved by retaining the daily worksheets, written out by the maintenance staff, within a file held within the maintenance engineer's office.

There are no 'O&M Manuals' or 'As Fitted' drawings on site containing the details of the electrical installation installed throughout the Football Stadium.

3.0 UPDATE OF 2015 RECCOMENDATIONS

From our observations and inspection we noted the following when comparing the installation to the 2015 report;

- Recommended Upgrading Works
 - Undertake all action points noted within the electrical test sheets – 2016 results due soon.
 - Undertake all action points noted in 2015 report Appendix 1 (generally wiring schematics and rubber matting)
- Repair Works
 - Undertake all repair works noted within the electrical test sheets.

We would also recommend that an exercise be undertaken to produce the following:

2015 Action	2016 Status	Comment
An 'Operating and Maintenance' Manual for the electrical distribution system installed within the Football Stadium	Works not completed	
A set of 'As Fitted' drawings recording the location of the electrical switchgear and route of all sub-mains cables installed throughout the	Works not completed	

Football Stadium		
An accurate wiring schematic for the electrical distribution system installed within the Football Stadium	Works not completed	

3.2 Additional Items noted

No new items for electrical distribution were raised as a concern at Excelsior Stadium

4.0 SUMMARY

The electrical installation provided throughout the stadium is considered to be in a good condition with only a few minor elements requiring attention

The electrical installation will be fully compliant with the current regulations set out within BS.7671 and the 'Electricity at Works Regulations 1989' when the following actions have been completed:

- After undertaking all the recommended upgrading/repair works detailed within this report.
- After undertaking all the recommended upgrading/repair works detailed within the electrical test sheets.

After undertaking a 100% electrical test on all sub-mains and final circuit cables installed throughout the stadium.

NORTH LANARKSHIRE COUNCIL REPORT ON EMERGENCY LIGHTING INSPECTIONS

EXCELSIOR STADIUM

1.0 INTRODUCTION

This addendum report has been prepared at the request of North Lanarkshire Council to provide commentary on works carried out at the Excelsior Stadium to the existing emergency lighting installation following on from the Rybka 2015 site inspection of emergency lighting which was carried out to compare compliance to BS EN 50172, BS EN 1838 and BS5266-1 : 2011.

This addendum report is linked to the document; **North Lanarkshire Council Safety at Sports Ground Annual Inspection 2016.**

The follow up site inspection visit was carried out on the 6th of May 2016.

The information contained within this report has been obtained from our on-site discussion with the staff, from reviewing the current Emergency Lighting Certificates and from our inspection carried out on the visible parts of the emergency lighting installation.

No physical light meter measurements were taken.

Where practical, the emergency lighting system was operated to view the coverage and general effectiveness of the system.

We did not inspect those parts of the installation which were built-in, covered up or made inaccessible within the normal course of construction, fitting out or occupation. Consequently, liability is not accepted for any faults which may become apparent at a later date due to a concealed defect.

Our comments and recommendations on the emergency lighting installation relates to the condition of the existing emergency lighting installation installed and highlights any departures from the current standards & regulations, and does not constitute a check on the performance of the installations currently in use.

This addendum report should be read in conjunction with the Rybka document; **'Report on Emergency Lighting Inspection, Excelsior Stadium' Dated 8th April 2015.**

2.1 TEST CERTIFICATE, LOG BOOK, O&M MANUAL AND 'AS FITTED' DRAWINGS

A copy of the emergency lighting 'Test Certificate' and 'Service Log Book' are kept on site and are up-to-date. The emergency lighting 'Test Certificate' expires on the 11th May 2016. It is noted that the Electrical Contractor employed by Excelsior Stadium is due to start annual emergency light testing week commencing 9th May 2016.

The log book records the weekly test dates.

There are no 'O&M Manuals', 'As Fitted' drawings or wiring schematics for the emergency lighting installation provided throughout the stadium.

2.2 SUMMARY

The inspection of the emergency lighting system installed throughout the stadium identified that several of last year's recommendations had been actioned however further items remain to be completed.

The system was not fully compliant with BS.5266-1 and could not prove whether or not it was fully compliant with BS EN 1838.

To ensure that the emergency lighting system installed throughout the stadium is fully compliant with BS.5266-1 and BS EN 1838 the following actions need to be carried out by the end user:

2.2.1 Complete the 'Essential Upgrading Works' detailed within Clause 2.3.1.

2.3 UPDATE OF 2015 RECCOMENDATIONS

From our observations and inspection we would recommend that the following upgrading works be carried out:

2.3.1 Essential Works

a. Provide stand-alone, self-contained, emergency luminaires in the following areas within the West Stand:

2015 Action	2016 Status	Comment
The main entrance lobby	Works not completed	
The Toilet Area of the Changing Room Corridor	Works not completed	
The Toilet Area within the Home Team Changing Room	Works completed	
Within the Turnstile Areas	Works not completed	Works scope is not the turnstiles but the exit route from the turnstiles which merges with an escape stair.
Within the Sports Bar Toilet Areas	Works not completed	The sports bar emergency lighting did not appear to be operational at the time of visit. Stadium staff investigating.
The President Suite	One dark area.	Believed to be lamp failure to downlight with emergency light function. Stadium staff investigating.
The President Suite Toilet Areas	Works completed	

b. Provide stand-alone, self-contained, emergency 'Exit' luminaires in the following areas within the West Stand:

The Office Areas	Works not completed	We note that rooms within the office and shop area of the building do not have full emergency lighting provision
The Home Team Changing Room	Works not completed	
The South Corridor.	Works completed	
The Toilet Area of the South Corridor	Works completed	

The Concourse Toilets	Works have been completed throughout the concourse toilets with one exception.	We note that emergency lighting to the Ladies Toilets South was not working at the time of the inspection visit.
The top floor Corridor	The top floor corridor does have emergency lighting, there is however a requirement for one exit sign.	We note a dark spot exists to the top floor to Stair 5 which is an emergency escape stair, an exit
Within the Boardroom Cloak Room	Works not completed	We note the area outside the cloak room has emergency lighting and the door to the concourse is locked suggesting it is not on an escape route.

- c. Provide stand-alone, self-contained, external emergency luminaires within the following areas:

Outside the main entrance into the West Stand	Works not completed	
---	---------------------	--

2.3.2 Recommended Works

- a. Provide 'Exit' sign luminaires within the following areas:

The North Stand	Works not completed	
The South Stand	Works not completed	
The East Stand	Works not completed	

- b. We would also recommend that an exercise be undertaken produce the following:

An 'Operating and Maintenance' Manual for the emergency luminaires and the emergency lighting system installed	Works not completed	
A set of 'As Fitted' drawings recording the location and type of all emergency luminaires installed throughout the Stadium	Works not completed	
A wiring schematic for the emergency lighting system installed	Works not completed	

2.4 ADDITIONAL ITEMS NOTED

We noted that on lower levels photo luminescent (glow in the dark) exit signage is used as part of the emergency exit strategy. On upper floors a similar strategy is employed however the signage is original from the time of construction and does not fluoresce or have any self-illuminating properties. We would recommend that the upper levels have emergency exit signage replaced to meet the standard EN ISO 7010:2012

The Club shop does not have any internal emergency lighting; we recommend self-contained emergency luminaires are installed to the shop area.