

PROPOSED NEW AQUATIC FACILITIES LEGISLATION

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Aquatic Facilities Regulation 2014

&

Code of Practice for the Design, Construction, Operation, Maintenance and Management of Aquatic Facilities 2014

PROPOSED NEW AQUATIC FACILITIES LEGISLATION

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The federation works to prevent drowning and water-related injury through its training programs. Lifesaving training, Water Safety awareness public education initiatives, water-incident research, aquatic safety management services, and lifesaving sport.

The federation sets the standard and guidelines for aquatic safety in Kenya and certifies Kenya's National Lifeguards.

The Federation represents Kenya internationally as an active member of the royal Life Saving society- commonwealth and the International Life Saving Federation. The Federation is the Kenyan governing body for lifesaving sport - a sport recognized by the International Olympic Committee and the Commonwealth Games Federation.

The federation conducted a research on health and safety standards of aquatic facilities in Nairobi, Nakuru and Kiambu counties and the bases of this research cumulated to publishing of this book as one of the recommendation of the findings as shown in the abstract.

COMPLIED BY

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ABSTRACT ON HEALTH AND SAFETY STANDARDS ON AQUATIC FACILITIES IN NAIROBI, NAKURU AND KIAMBU COUNTIES.

BACKGROUND

Swimming pool hygiene and safety has been a great concern to many who uses pools facilities in Kenya.

Many cases have hit the Kenya headlines in T.V stations and on major National Newspaper where death due drowning in many pools in Nairobi and Nakuru has featured several. A month does not end before a fresh case is reported.

These deaths in these pools has been attributed to poor health and safety standards of pool facility concern e.g. the water quality at time of accident reveals that the pool was green hence poor visibility in locating the victim in one case the fellow swimmers did retrieve two dead bodies in a pool and brought it to the attention of the lifeguards concerned and another case friends and relative notified the lifeguards of their missing colleague at the closing time after discovering his clothes, that when the lifeguard made a search under water and just to scoop a nineteen year boy. Reasons for his inaction, the pool was green. Why did he allow people to use the green pool, the management want financial returning at the end of the day, week and month hence he could not stop people from using the pool.

OBJECTIVE

1. To determine factors attributed to death by drowning in relation to poor health and safety standards.
2. To establish a policy formulation which may stimulate better methods of intervention on improvement of safety standards, training and proper management of aquatic facilities?

METHODS

1. KLF audit reports of aquatic facilities inspection done from 2008 to 2012 around Nairobi, Nakuru and Kiambu counties were used. The audit report was further summarized into ten sections to assess the compliance or non compliance of the aquatic facilities.

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RESULT

In Nairobi 40 pools scored 0-20% compliance, 25 pools ranged 21%-40% compliance, 15 pools got 41-61%, 13 pools ranged 61-80% and only 7 pools ranged 81-100% compliance.

In Nakuru 12 pools scored 21%-40% compliance and only 4 pools obtained 81%-100% compliance

In Kiambu 11 pools received 21%-40% compliance while no pool reached the range of 81%-100% compliance.

DISCUSSION

The relevant authorities that supervises and manage public swimming pools must be licensed to operate them and have an overseeing authority that will supervise and monitor their safety and compliance to general and specific safety and hygiene standards as established by them. Staff working at these stations must be trained and certified to work in their various stations and authority should be established to monitor and enforce this.

CONCLUSION

Public swimming pools, both hotel and learning institutions must engage competent personnel who are trained and certified. Such personnel can then be held liable for incidents that occur within their jurisdictions. We must act together on this to keep the swimming pools the fun place they are support to be and not and not turn them into death wells (et Paul Angar 2011)

Overview

- Background
- Aquatic Facilities Regulations 2014
- Code of Practice for the Design, Construction, Operation, Management & Maintenance of Aquatic Facilities (the Code)
- Aquatic Facility Working Group
- Aquatic Facility Guidance Notes

PROPOSED NEW AQUATIC FACILITIES LEGISLATION

- Training/Questions
- Development: commence approximately January 2014
- Public Consultation: June-October 2013
- Comments Reviewed by: “Swimming pool Working Parties”
- Further Consultation 2013
 - NEMA
 - Ministry of health
 - Kenya Lifesaving federation
 - Kenya swimming federation
 - Department of Education & Training (local universities KU,UON,JKUAT,MU,EU)
 - Ministry of Local Government
 - Industry Engineering Representatives
 - Pool constructions & chemical companies Davis & shiftliff, Henkel E.A,Water ways, kisio swim shop, water world
 - Physiotherapy Association
 - Department of Local Government & Regional Development
 - Swimming pool constructors association
 - Head of schools
 - MDs hotels industry

Background

Commencement of the Regulations

- Consultation Context (necessary to establish policy positions):
 - Comment period for the Code

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–Swimming Pool Working Party meetings

- Commencement of the regulations -January 2014
- The regulations& Code to be available online:
- Dept of Health to published & circulated: ‘Aquatic Facilities Guidance Note to explain the key aspects & commencement provisions.

THE REGULATION PARTS

PART 1. INTRODUCTION

Part 2 –Construction, Alteration & Extension of AQUATIC FACILITY’S

Part 3 –Operation of Aquatic Facilities

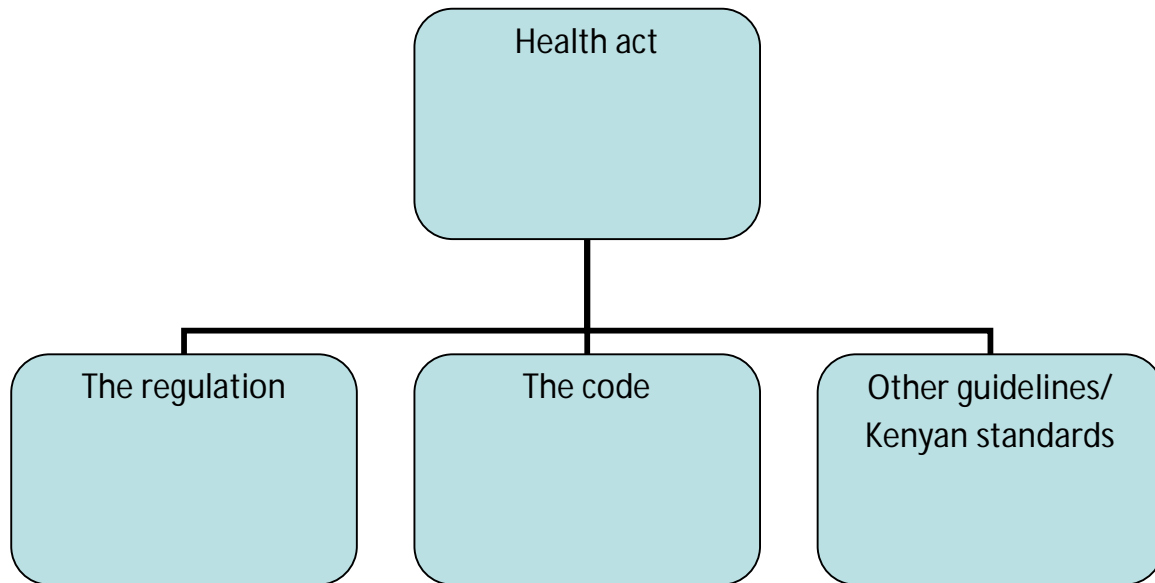
Part 4 General provision

Part 5 -Transitional Provisions

THE REGULATIONS PART 1 INTRODUCTION

- The Code is adopted to the extent it is applied by these regulations.
- Regulations prevail over the Code to the extent of any inconsistencies.

Legislation Framework



Terms used in the regulations

“**water body**”, includes any spa pool, swimming pool, swimming bath, water slide, wave pool & any other aquatic amenity or facility controlled or used by in connection with any club, school, business, association or body corporate.

“**Aquatic facilities**” consists of:

–the water bodies; & plant, concourse, toilets, change rooms, lighting, fencing, & any other structure, building or plant necessary for water body operation.

Aquatic Facilities’do not include :

- only uses water directly from the ocean,
- or is a naturally occurring water body.

Key Issues Aquatic Facility Definition

- certificate of compliance (construction)

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- permit to operate (operation)

“**operator**”, of an aquatic facility includes:

- Occupier of land/ premises of AQUATIC FACILITY.
- Any other person concerned with AQUATIC FACILITY operation other than an employee.

“**alter**”, an aquatic facility, means to do work on the facility.

Does not include: maintenance, repair, or replacement where equivalent or similar performance parts, plant or equipment is used.

Significance

- Applications to **NEMA/LGA** for approval only necessary when proposing to undertake construction, alteration or extension works.

UNDERTAKING WORK ON AN AQUATIC FACILITY Maintenance & Repair
–like for like Construction, Alteration & Extension **No Approval Required**
NEMA/LGA Approval Required

The Regulations P2 –Construction, Alteration & Extension of Aquatic Facilities

D1 –Approval of Construction

- Construction, alteration or extension **must** comply with **NEMA/LGA approval**
- The occupier must complete application form (DOH website)
- Attach **2 copies** of plans/specifications & all other necessary information

- NEMA/LGA may approve application if:
 - **complies with the Code, or;**
 - health & Aquatic Facility of patrons not compromised **& either**
 - performance is the **same or better, or;**
 - public interest in approval.
- NEMA/LGA may approve a variation or staged construction.

D2 –Certificate of Compliance

- An **AQUATIC FACILITY must only** be **operated** if there is a certificate of compliance in force specifying the **AQUATIC FACILITY/water body class** of **operation**.

- A person may apply to **NEMA/LGA** for a certificate of compliance.

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•NEMA/LGA may issue certificate of compliance if the **AQUATIC FACILITY** has been constructed, altered, or extended in accordance with:

–**NEMA/LGA approval, or if;**

–Complies with **Code** at time of application.

Certificates of Compliance& Permits to Operate

•**Certificates of compliance& permits to operate** have been issued to all approved/compliant pools under the repealed regulations.

•Existing pools **unapproved** under the repealed regulations are being inspected by EHO's& inspection reports sent to DOH.

•DOH are issuing **G2-4**Operators with works lists (copies sent to LG) & advising to complete before **the** deadline.

•If LG EHO's are unaware of request to undertake inspections, or require further info

The Regulations P3 –Operation of Aquatic Facilities

D1 –Permit to Operate an Aquatic Facility

•An Operator may **only operate** an **AQUATIC FACILITY**/water body if he/she has a permit to operate an **AQUATIC FACILITY**/water body, which prescribes the relevant class or higher class of operation.

•An **Operator** may apply to the **NEMA/LGA** for a permit to operate an **AQUATIC FACILITY**/water body at a specified class.

•The **NEMA/LGA** may grant an **Operator** a permit to operate providing:

–A certificate of compliance is in force, &

–Satisfactory water quality &

–Aquatic Facility qualifications comply with Code requirements.

Permit to operate

•**AQUATIC FACILITY** Operators may **operate** an **AQUATIC FACILITY**/water body at a lower classification level than specified in a permit to operate, providing activities follow the classification prescribed by Table 1, Section 1.2 –Classification of **AQUATIC FACILITY**'s in the Code.

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Example

•An operator of a Class 2 **AQUATIC FACILITY** may reduce **AQUATIC FACILITY's** operation to Class 3 for designated periods which comprise **only** of Class 3 activities, if personnel with Class 3 qualifications in (supervision& first aid), are onsite for the activity duration.

The Code S7 -General Sanitation & Operational Requirements

Qualifications of Coaching & Instructional Aquatic Facility

- Only applicable to **Group 2 Activities**
- Hold appropriate industry qualification
- Removes need for dedicated lifeguard

The Code

Qualifications of Coaching & Instructional St Aquatic Facility Activity	Approved Industry Standard or Equivalent
Swimming & Water Aquatic Facility Instruction	<ul style="list-style-type: none"> •Kenya Life Saving Instructor of Swimming & Water Aquatic Facility Certificate <i>or</i> •KLF Teacher of Swimming & Water Aquatic Facility
Competitive Swimming Coaching	KSF,KSCA Swimming Coaching Qualification
Platform & Springboard Diving	Diving Association Coaching Qualification

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SCUBA Diving	Dive Instructor Qualification from a recreational SCUBA training organization.
Aqua-Exercise	Kenyan Fitness Association Council Aqua-Exercise Leaders Certification
Hydrotherapy	Registered Physiotherapist

Lap Swimming Activity Classification

Group 1&3 Activity (see Table 1 of Code)

Group 1= general admission, pay fee at entrance

Group 3= discrete user i.e. members/guests

Lap swimming = only use of pool

Considered a **Group 3** activity if:

• **AQUATIC FACILITY** policies & procedures ensure discrete user group & patron Aquatic Facility i.e.

• Restrict entry to persons **10 years, or older**.

• Ensure **minimum 2 lap-swimmers** at any one time.

NOTE: SUBJECT TO CURRENT CONSIDERATION OF AQUATIC FACILITY WG

AQUATIC FACILITY's in use or under Construction No NEMA/LGA Approval NEMA/LGA Approved Inspect for Compliance with Repealed Regulations NEMA/LGA Issue Certificate of Compliance NEMA/LGA Issue Permit to Operate

Comply with Code operational requirements:

• Section 5 –Water Quality & Testing

• Section 6 –Qualification Requirements

• Section 7 –General Sanitation & Operational Requirements

The Regulations Operation of Aquatic Facilities

PROPOSED NEW AQUATIC FACILITIES LEGISLATION

•NEMA/LGA may approve variations to operational requirement's (Sections 5, 6 & 7), if:

–same or better health & Aquatic Facility protection, **or**

–does not compromise health & Aquatic Facility of patrons, **or**

–there is a public interest.

•A copy of the approved variation **must** be kept at **AQUATIC FACILITY** for inspection by an Environmental Health Officer.

•Operators are required to ensure compliance by **2014** with the following Code clauses:

–2.12 –Depth Markings,

–2.22 –First Aid Amenities,

–2.23 –First Aid Equipment,

–2.24 –Rescue Equipment &

–2.25 –Aquatic Facility Signage

The Regulations Mandatory Aquatic Facility Requirements

•Until 2014 the following repealed regulation requirements continue to apply:

–Exemptions if any will....

–Operational Requirements

•E.g. water: circulation/filtration/sampling

–NEMA/LGA Powers (Closure)

–Offences & Penalties

The Regulations Water Sampling

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•**Local Government (LG) EHO** of each county **must** collect 2 water samples (**WS**)(bacteria & amoeba), from each **AQUATIC FACILITY** water body 1/month.

•**NEMA/LGA** may exempt LG if it is **impractical** for EHO to collect samples & **if AQUATIC FACILITY** Operator can ensure **WS** for their **AQUATIC FACILITY** is collected 1/month.

Problems

- Available EHO's
- Many LG's use Trainee EHO's to collect **WS**
- NEMA/LGA can't exempt LG, except if impractical

Solution

•Health **Ministry** has to **agreed** to enable persons working under EHO direction to collect **WS**.

–DOH will issue circular to advice of this directive

–The regulations will be amended

•NEMA/LGA/EHO may issue **Operator** with **Improvement Order** if:

–**AQUATIC FACILITY**/operation is a risk to patrons' health

–**non-compliance** with:

•operational requirements

•approved variations to operational requirements

•Improvement Order **must** be issued using an approved form & specify:

–Area/s of **non-compliance** with Code's Operational Req's

–Measures required comply / reduce risk patrons health.

–**Time frame** for **Operator** compliance.

–Any ancillary or incidental directions.

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- Operator **must** comply with Improvement Order (IO)
- NEMA/LGA/EHO may extend timeframe before IO expires
- NEMA/LGA/EHO must note date of compliance on IO& give Operator copy upon request.
- NEMA/LGA/EHO may issue Operator a **Closure Order (CO)** for:
 - Not** complying with an Improvement Order, **or**;
 - non-compliance** with:
 - operational requirements (Sections 5, 6 & 7)
 - approved variations to operational requirements
 - clauses 2.12 & 2.22-2.25

AQUATIC FACILITY operation is a **serious risk** to patrons' health.

- No** certificate of compliance (**only NEMA/LGA**)

D3-Quality Control "Closure Order"

- A CO expires Aquatic Facility **48hrs** if the NEMA/LGA does **not** confirm.
- NEMA/LGA may confirm, or cancel CO.
- Operator **must** ensure **AQUATIC FACILITY**/water body remains closed whilst CO is in force.

D3-Quality Control "Closure Order"

- A CO **must** be issued using an approved form & specify:
 - Grounds for closure
 - Measures required complying with Code
 - Measures required reducing the risk
 - Operator commits offence, if fails to keep **AQUATIC FACILITY**/water body closed.

PROPOSED NEW AQUATIC FACILITIES LEGISLATION

•A CO confirmed by **NEMA/LGA** remains valid until:

- Grounds for closure ceased, or remedied &
- Measures required to be taken completed &
- NEMA/LGA directs the closure order to cease (in writing)

Closure Order Form

What current breaches may warrant an EHO issuing an Operator with an Order?

Note: Limited application until 2014

Improvement Order

- AQUATIC FACILITY/operation is a risk to health
Closure order
- Failure to comply with an **Improvement Order**

The Regulations

P4 –General Provisions

Division 1 –Hygiene & Use of Facilities

- A person **must not** enter, or use **AQUATIC FACILITY** water body if:
 - Suffering from gastroenteritis, or disease/skin infection **that is** communicable.
- Exemption**-person with written statement from a medical practitioner (stating not a health hazard to other water body users).
 - in unclean condition/wearing unclean clothes
 - under influence of alcohol/drugs (i.e. intoxicated)
 - a baby or young child who ordinarily wears a nappy, not wearing an **aqua-nappy**.

Division 1 –Hygiene & Use of Facilities

Patron/Operator Responsibilities

- A person **must not**:
 - pollute
 - deposit rubbish or offensive matter

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–**intentionally** release bodily material/waste into an **AQUATIC FACILITY** water body, other than what is released through ordinary use.

•A person **must not** permit animals to enter an **AQUATIC FACILITY**

–**Exemption** guide dogs/animals trained to assist disabled people (**Note:** Animals **must not** enter water body).

D2 Miscellaneous Provisions

•NEMA/LGA **must** give reasons for decision if refuses:

–grant approval to construct, alter, or extend

–Issue certificate of compliance

–grant permit to operate

•Person Aquatic Facility feted by NEMA/LGA decision may apply to the **State**

Administrative Tribunal.

•Offences & penalties:

–1st offence KSH 10,000 -20,000

–2nd offence KSH 20,000 -50,000

–3rd offence KSH 50,000 -100,000

–**Continuing offence** KSH 500 -1000 each day

•The Code is available on DOH website

•Copies available for inspection at:

Transitional Timeline **1 January 2014-Commencement 1 September 2014**–
NEMA/LGA Issue **G2-4 Certificate/ Permit 1 October 2014 -G2-4 Operators** to
comply **Sect’s 5, 6 & 7 of the Code 1 October 2014**–**All Operators** to comply Code
clauses 2.12, 2.22 -2.25

The Code Sections

Section 1 -Administrative Provisions

Section 2 -Design & Construction Requirements

Section 3 -Circulation & Water Treatment Systems

Section 4 -Chemical Aquatic Facility

Section 5 -**Water Quality & Testing**

Section 6 -**Qualifications for Operators & Supervisors**

Section 7 -**General Sanitation & Operation**

Section 8 -Requirements for Special Facilities

Section 9 -Public Spa Pools

Section 10 -Special Requirements for Waterslides

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Section 11 -Hydrotherapy Pools

The Code Use of External Standards

•The Code adopts Standards, KLF, FINA & Royal Life Saving Society Commonwealth Guidelines.

•External standards are dated referenced E.G KLF-PS/RCL/08

•DOH/Aquatic Facility Working Group (AQUATIC FACILITY WG) will review superseded standards & recommend NEMA/LGA amend **Code**(as appropriate).

The Code Classification Table Factors

•4 Aquatic Facility Groups

•Classification Criteria:

–**Facility Design** Characteristics

–**Types of Personnel** Accessing Facility

–**Types of Activities**/ Nature of use

•Starting Point -**General Classification Examples**

Table 1 –Classification of Aquatic Facilities

Patron Access Limitations Activity Technical Operator Requirements Patron Supervision/ Emergency Care Personnel Classification Public access with limited restrictions e.g. child < 10yrs accompanied by person \geq 16yrs Non structured *Typical examples*; leisure, free-play & lap-swimming On-site at all times. All patrons directly supervised. Emergency care personnel on-site at all times.

Group One *Facilities typically available to the general public for payment of an entry fee and examples include*; aquatic centres, waterslides & water-parks. Restricted to discrete users and user groups Structured Qualified activity leader present *Typical examples*; infant aquatics, learn- to-swim, swimming and lifesaving classes and aqua-exercise Not on-site at all times. All patrons directly supervised. Emergency care personnel on-site at all times. **Group Two** *Facilities generally include*; schools, learn-to-swim centres, learn-to-dive pools, nursing homes, hospitals &

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hydrotherapy/physiotherapy use pools. Restricted to discrete users and user groups
Typical examples; Club members, commercial guests & residents and guests Non structured No qualified activity leader present
Typical examples; leisure, free-play & lap-swimming Not on-site at all times. No direct supervision. Emergency care personnel able to respond within a reasonable period of time (See Sect 6.2.5).

Group Three *Facilities generally include;* Discrete user access of group 1,2 or 4 aquatic facilities (AQUATIC FACILITY) by community/swimming groups, or; commercial developments for guests such as hotels, motels, resorts, serviced apartments, caravan parks, health clubs, mine sites, recreational camp-sites, lodging houses, Aquatic Facility/student accommodation complexes & places restricted to adult only access. Restricted to owner/occupier residents and guests Non structured No qualified activity leader present
Typical examples; leisure, free-play & lap-swimming Not on-site at all times. No direct supervision. No emergency care personnel on-site.

Group Four *Facilities generally include;* Small temporary accommodation developments such as bed and breakfast and farm-stay facilities and permanent/semi-permanent residential development with 30 or more dwelling units/apartments and retirement/lifestyle villages that do not allow non-residential based club/member access to AQUATIC FACILITY.

Group 1

Anyone can enter/pay fee

- LG aquatic centers
- Waterslides

Group 2

Education/Tuition based

- Schools
- Learn-to-swim
- Physiotherapy
- Dive Instruction

Group 3

Discrete user groups/set rules Hotel/ motels

- Community operated facilities

Group 4

Residents/Guests/rules apply

- Residential Apartments

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- Chalets/Farm stays

The Code S2 –Design & Construction

General Requirements

- Surface Finishes
- Obstruction & Entrapment
- Floor Gradients
- Access & Egress
- Ventilation
- Concourses & Walkways
- Separation Distances
- Sanitary Amenities
- Backwash Water
- Electrical Aquatic Facility
- Lighting/ Protection
- Shade Protection
- Fencing & Security

- More prescriptive
- Generally **ONLY** apply to **New AQUATIC FACILITY**
- AQUATIC FACILITY**'s have until **1 October 2013** to complies with:

MANDATORY REQUIREMENTS	
2.12	Depth Markings
2.22	First Aid Facilities
2.23	First Aid Equipment
2.24	Rescue Equipment
2.25	Aquatic Facility Signage

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Depth Markers

- Permanent
- Contrast colour to background
- intervals not exceeding 7.5m
- Visible to person entering pool
- Indicate max & min depth
- Indicate water depths at all major deviations in shape
- Close as practicable to corners of rectangular shaped water bodies
- Near to all designated entries not located directly over stair/step entries
- Display: horizontal & vertical surfaces(min height =**90mm**)
- Required on vertical surfaces **IF** distance between concourse/coping deck/header & water level is \geq **125mm**
- Pictorial signage displayed to indicate sudden changes in gradient
- Close as practicable to corners of rectangular shaped water bodies
- Near to all designated entries not located directly over stair/step entries
- Display: horizontal & vertical surfaces(min height =**90mm**)
- Required on vertical surfaces **IF** distance between concourse/coping deck/header & water level is \geq **125mm**
- Pictorial signage displayed to indicate sudden changes in gradient

First Aid Facilities -G2 & 3

- Resuscitation Notice
- First Aid Sign
- Hand wash basin with water

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- GPO outlet
- Storage for 1staid supplies
- Washable flooring

First Aid Equipment G2 & 3

- First aid kit
- Stretcher
- 2blankets/pillows
- Pocket mask
- disposable gloves
- Rescue Equipment Groups 1-3
- Provide appropriate rescue equipment:

–Reaching poles

–Rescue tubes

–Lifejackets

–Throwing ropes

–Throwing bags

- Excludes waterslide landing pools, or landing sheds

Aquatic Facility Signage

- Lists patron rules & behavior
- Prominent location Groups 3-4
- Display warning sign at entrance stating:“**NO LIFEGUARD ON DUTY**”Lettering 100mm

Category Loading Classification Parameters Examples Maximum Permissible Turnover Times
1 Spas Spa Pools Spa Pools, Leisure Bubble Pools **15 mins**
2 Extreme Very High Bather Load, Very Shallow Water Toddlers Pool, Water Slide
Splashdown Pool **30 mins**
3 Very High Very High Bather Load, Heated Water, Shallow Water Shallow Leisure Pool, Hydrotherapy Pool **1 hour**
4 High High Bather Load, Heated Water, Moderately Shallow Water Medium Depth Leisure Pool, Learn

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to Swim, Wave Pool **1 ½ hours 5** Moderate High Bather Load, Heated Water, Medium Depth Water Full Depth Heated Leisure Pool, Lazy River, Medium Depth Unheated Outdoor Leisure Pool **2 hours 6** Light Medium Bather Load, Heated Water, Medium Depth Water Heated School Pool, Health Club Pool, Body Corporate, Caravan Park, Motel Pools Full Depth Unheated Outdoor Leisure Pool **2 ½ hours 7** Low Bather Load, Deep Water 50m Competition Pool, Unheated Municipal/School/Motel etc Pool **3 ½ hours 8** Very Low Very Low Bather Load, Very Deep Water Diving Pool, Water Polo Pool **5 hours**

Table 4 –Water Body Loading Category Chart

•Generally only applies to **new AQUATIC FACILITY** except, when **altering** existing filtration/water circulation system.

The Code

S5 –Water Quality & Testing

New Tests

- Alkalinity = 60-200mg/L
- Calcium hardness = 50-400mg/L
- TDS ≤1000 mg/L above supply water, max = 3000mg/L

pH range

- Chlorine= **7.2-7.8**
- Bromine= **7.2-8.0**

•Maximum chlorine level = **10 mg/L**

•Maximum water temperature = **38 0C**

Minimum Free **CHLORINE** Levels –milligrams per litre Water Temperature < **26C**
Water Temperature > **26C Unstabilised** pools – cyanuric acid not used 1.0 2.0
Stabilised pools –where cyanuric acid is used 2.0 3.0 Minimum Free **CHLORINE**
Levels –milligrams per litre Spa & hydrotherapy pools 3.0 Wading Pools 3.0

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S5 –Water Quality & Testing Minimum Free Chlorine Levels –milligrams per litre		
Facility	Water Temperature < 26C	Water Temperature > 26C
Swimming Pools, Wave Pools, Water Slide Receiving Pools	2.0	4.0
Hydrotherapy Pools, Spa Pools and Wading Pools	4.0	6.0

S5 –Water Quality & Testing Minimum Free BROMINE Levels – milligrams per litre		
Type of Facility	Water Temperature < 26C	Water Temperature > 26C
Swimming Pools, Wave Pools, Water Slide Receiving Pools		
Hydrotherapy Pools, Spa Pools and Wading Pools		

Approved Test Kits

- Palintest Comparators
- Palintest Photometers
- Lovibond Comparators
- Lovibond Photometers
- Please note that some test kits may need to be upgraded to facilitate additional tests.

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Operator Responsibilities (Off-season)

i.e. AQUATIC FACILITY closed/not in use for extended period

1. Display signs at all AQUATIC FACILITY entry points:

e.g. “**FACILITY CLOSED FOR OFF-SEASON** “or similar.

2. Maintain water clarity

3. Prevent algal growth, insect breeding, objectionable odours & other nuisances/sAquatic Facility hazards in/from waterbody.

4. Obtain approval from Local Govt EH Service to **re-open**.

S5 –Water Quality & Testing Type of Organism	Max Allowable Count
Heterotrophic Plate Count	100 Colony Forming Units (CFU) per mL.
Presumptive Total Coliforms	<1 per 100mL
Presumptive <i>Pseudomonas spp</i> (Only applies water temp > 32°C)	<1 per 100mL
Thermophilic Amoebae	Not Detected
Thermophilic <i>Naegleria</i>	Not Detected

The Code S7 -General Sanitation & Operational Requirements

- 7.1 Cleaning & Maintenance Requirements
- 7.2 Automatic Electric Cleaner Aquatic Facility
- 7.3 Heat Blanket Aquatic Facility
- 7.4 Electrical Aquatic Facility
- 7.5 Hand Dosing of Chemicals
- 7.6 Prohibition of Entry Into Water Body
- 7.7 Prohibition of Animals
- 7.8 Operations Manual & Emergency Action Plans
- 7.9 Minimum Entry Age
- 7.10 Supervision Requirements
- 7.11 Operation of Diving Facilities & Starting Platforms
- 7.12 Qualifications of Coaching and Instructional Aquatic Facility
- 7.13 Towel & Bathing Costume Hire

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7.14 Maximum Bather Numbers

Operation Manuals & Emergency Action Plans

•Operators of **G1-3 AQUATIC FACILITY's** to prepare in accordance with **Aquatic Facility Guidelines:**

- GO1.01 -Operation Manuals
- GO1.02 -Emergency Action Plans

Operations Manual

- Facility Layout
- Training
- Occupational Health & Aquatic Facility
- Personnel Policies & Procedures
- Supervisory Procedures
- Maintenance
- Water Quality
- Programs
- Emergency Action Plan

Emergency Action Plan

- Routine Aquatic Emergency Procedures
- Major Incidents
- Aquatic Facility Response
- Rescue & First Aid Equipment
- Emergency Services
- Evacuation
- Critical Incident Stress
- Practising Emergency Procedures

Cleaning & Maintenance Requirements

•Maintain **AQUATIC FACILITY** in:

- good repair/sound working & sanitary condition
- clean & free of litter & vermin

PROPOSED NEW AQUATIC FACILITIES LEGISLATION

Automatic Electric Cleaners

- **Do not** leave in water when **AQUATIC FACILITY** open for use

Heat Blankets

- RLSSA Pool Aquatic Facility Guideline GO 1.05 –Pool Covers

Electrical Aquatic Facility

- **Do not** connect **GPO's** located around concourse to power equipment when people are in water body.

- **Only** use mains power supply electrical equipment on dry surfaces.

- **Licensed Electrical Worker** shall test (every 6 months):

–RCD's

–Cord extension sets

–Portable electrical equipment

Hand Dosing Of Chemicals

- **Prohibited** when water body is occupied by:

–**Patrons/ Bathers**

Towel & bathing costume hire

- Approved **CLEANING PROCESS** between each use:

–*Health (Cloth Materials) Regulations 1985*

Minimum Entry Age-Group 1-3 AQUATIC FACILITY's

- **10 yrs**, unless accompanied by a person **16+yrs**

–Guideline SU 1.11-Parental Supervision

PROPOSED NEW AQUATIC FACILITIES LEGISLATION

The Code S7 -General Sanitation & Operational Requirements

•**10 yrs**, unless accompanied by a person **16+yrs**

–Guideline SU 1.11-Parental Supervision

Diving & Starting Platforms

•Operation = KLF Aquatic Facility Guidelines

–SU 1.13 –*Supervision of Diving Towers and Springboards*

–Starting Platforms: *Aquatic Facility Diving for Competitions*

•Supervision required whilst in use & Emergency Care Personnel Encompass

•**National Units of Competency**

•**KLF Guidelines**

•**NEMA/LGA Approved Criteria**

•Vary for different **AQUATIC FACILITY** Groups

The Code S6 –

Qualifications for Operators, Supervisors & Emergency Care Personnel

Groups 2 & 3

•Operate & maintain **AQUATIC FACILITY** by personnel holding qualifications in:

–Technical Operations

–Participant Supervision/ Patron Rescue

–Emergency Care (First Aid Certificate)

Technical Operator (TO)

•A person who holds a **current technical operations** qualification obtained from an approved training program, who engages in:

–**Operation & Maintenance** of **AQUATIC FACILITY**.

PROPOSED NEW AQUATIC FACILITIES LEGISLATION

Group 2-4 -Technical Operations

- Monitor Pool Water Quality
- Operate Aquatic Facility Plant & Equipment
- Maintain Pool Water Quality
- Follow Defined Occupational Health & Aquatic Facility Policies and Procedures

Technical Operations Requirements

Group 2-4

- A person other than a **technical operator** may do the daily manual water body chemistry testing if instructed by a **technical operator**.
- Checks water quality **not** plant & equipment
- Report results outside required range to **Technical Operator** for further advice/action.
- Technical Operator e.g.** may visit **AQUATIC FACILITY** once/week, except when responding to report of water quality problem.

Accessing Training
Potential Training Providers

Technical Operations

- Central Aquatic Facility**
- State Training Services**
- Aquatic Operations Development**
- Monitor pool water quality (only)

Groups 2

- Personnel with the following qualifications must be **on the premise** whenever **AQUATIC FACILITY** open/available for use:

PROPOSED NEW AQUATIC FACILITIES LEGISLATION

- Participant Supervision/Patron Rescue
- E.g. Aquatic Rescue Award/Certificate

-Emergency Care

- E.g. Senior First Aid Certificate

Groups 3

•Personnel with the following qualifications must be able to “**respond to a call for help quickly enough to minimise the chance of a person suffering long-term damage as a result of an incident**”:

- Participant Supervision/Patron Rescue
- i.e. Aquatic Rescue Award/Certificate

-Emergency Care

- i.e. St Johns (Workplace First Aid Certificate)

Emergency Care Qualifications

Groups 1 & 2

HLTFA 1A Apply Basic First Aid

Group 3

HLTFA 201A Provide basic emergency life support

-Currency FIRST AID CERTIFICATE= Reassessment every 3 years

Supervision

•Adequate & constant **surveillance** of persons in **water** by a person appropriately **qualified** to:

- anticipate problems
- quickly identify emergencies
- provide appropriate & timely response

•**Group 1-2 AQUATIC FACILITY’s** require **direct supervision**

•**Group 3 AQUATIC FACILITY’s** are **not** required to provide supervision

Supervision Group 1-2 AQUATIC FACILITY’s

•Locate **supervisors** to maintain water supervision

Supervisors -Assigned Duties (Should not)

PROPOSED NEW AQUATIC FACILITIES LEGISLATION

- Distract **patron supervision(at all times)**

- Inhibit ability to provide **immediate assistance** to:

- Patrons in distress

Group 2 –Participant/Patron Supervision

- SRC AQU 003B Respond to an aquatic emergency using basic water rescue techniques

Annual Reassessment

Qualifications of Coaching & Instructional Aquatic Facility

- Only applicable to **Group 2 Activities**

- Hold appropriate industry qualification

- Removes need for dedicated lifeguard

The Code

Swimming & Water Aquatic Facility Instruction	<ul style="list-style-type: none"> •Royal Life Saving Instructor of Swimming & Water Aquatic Facility Certificate <i>or</i> •KSF,KLF KSCA Teacher of Swimming & Water Aquatic Facility
Competitive Swimming Coaching	Kenyan Swimming Coaching Qualification
Platform & Springboard Diving	Kenyan Diving Association Coaching Qualification
SCUBA Diving	Dive Instructor Qualification from a recreational SCUBA training organisation.
Aqua-Exercise	Fitness Association Council Aqua-Exercise Leaders Certification
Hydrotherapy	Registered Physiotherapist

PROPOSED NEW AQUATIC FACILITIES LEGISLATION

Group 3 –Participant/Patron Supervision

- SRC AQU 003B Respond to an aquatic emergency using basic water rescue techniques

Or

- Aquatic Rescue Course Approved by NEMA/LGA:

- RTO, industry expertise (bronze medallion & resuscitation) & examiner

- RLSS, Surf Life Saving, Paddy’s Dive Instructors, G1 Pool Manager’s & Industry?

- Dry Rescue, Wet Rescue, Recover & Resuscitate (video)

- Knowledge Component –water Aquatic Facility/spinal injury (multiple choice Q’s)

- Update every 3 years**

Assessing Training

Other Potential Providers

Aquatic Rescue Award for G2 AQUATIC FACILITY

- Kenya Lifesaving Federation (KLF)

First Aid Certificates

- Red Cross

- St Johns Ambulance

- KLF

- Further info regarding **Training Courses** & national units of competency are available on the **klf** website or by contacting Training Accreditation klf branches.

The Code S9 -Public Spa Pools

Design Requirements

AS 2610.1–1993 Spa Pools Part 1: Public Spas

Min Water Body Turnover:

Table 4 of Code = **15 mins**

The Code S11 Hydrotherapy Pools

Design Requirements

AS 3979 –1993 **Section 2**,

excluding:

PROPOSED NEW AQUATIC FACILITIES LEGISLATION

- 2.1.7 Lighting
- 2.2.4.2 Indicators
- 2.2.6 Concourse drainage & finish
- 2.2.9 Water circulation
- 2.3 Electrical equipment
- 2.5 Pool covers
- 2.6 Storage areas

Wherein **Section 2** of the **Code shall apply**
Aquatic Facilities Working Group
(AQUATIC FACILITYWG)

•**DOH** sent out expressions of interest for AQUATIC FACILITY WG seeking wider representation than Swimming Pool Working Party

•**AQUATIC FACILITY WG** includes approx 2 representative organizations: Min of health, state law office,
-KLF, KSF, MIN OF SPORTS, min of health LGA, NEMA, DAVIS & SHITLIFF, HENKEL, WATER WAYS, SPCA,, Architects, Engineers, Water Treatment Specialists & Pool Maintenance

•Meetings to be held between **20 May & 30 July 2013**

•Key Agenda Items:

- General Construction Issues
- Group 1 Single Person Operator Proposal

-**Review Aquatic Rescue/ First Aid Qualification Requirements G3**

-Technical Operator Clarification

-Qualification Equivalency

-Amendments to Regulations -AQUATIC FACILITY Definition, Water Sampling, Extend timeframe G2-4