



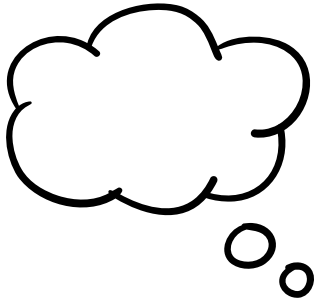
Aquatic Health & Regulatory Updates



AGENDA

- **AQUATIC HEALTH PROGRAM (AHP) UPDATES**
- **KEY ACCESS (2025)**
- **RISK FACTOR SURVEYS**
- **HOW PLAN REVIEW IS AFFECTED BY FEDERAL CHANGES**

AHP UPDATES



OVER 50% OF AQUATIC FACILITIES IN CLARK COUNTY ARE TWO TO THREE DECADES OLD OR OLDER.



OVER 50% OF CLOSURES CORRECTED ON SITE WITH REDUCED FEES



**WORKING WITH AQUATIC FACILITIES:
COLLABORATION & COMPLIANCE**



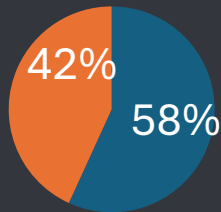
CHALLENGES BEYOND OUR CONTROL: ADDRESSING INDUSTRY STRUGGLES

INADEQUATE DISINFECTANT LEVELS

LOW levels won't "kill" germs,
which allows them to spread
resulting in poor water quality.

HIGH levels pose various health
risks, lung irritation, skin & eye
irritation.

DISINFECTION CLOSURES

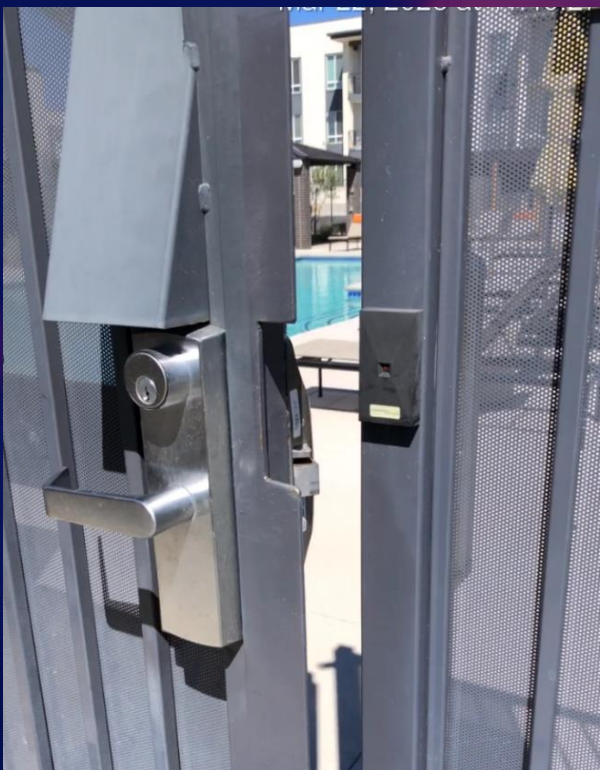


■ W/O AUTOMATION ■ WITH AUTOMATION



NON-FUNCTIONAL GATES OR BREACHES IN THE ENCLOSURE

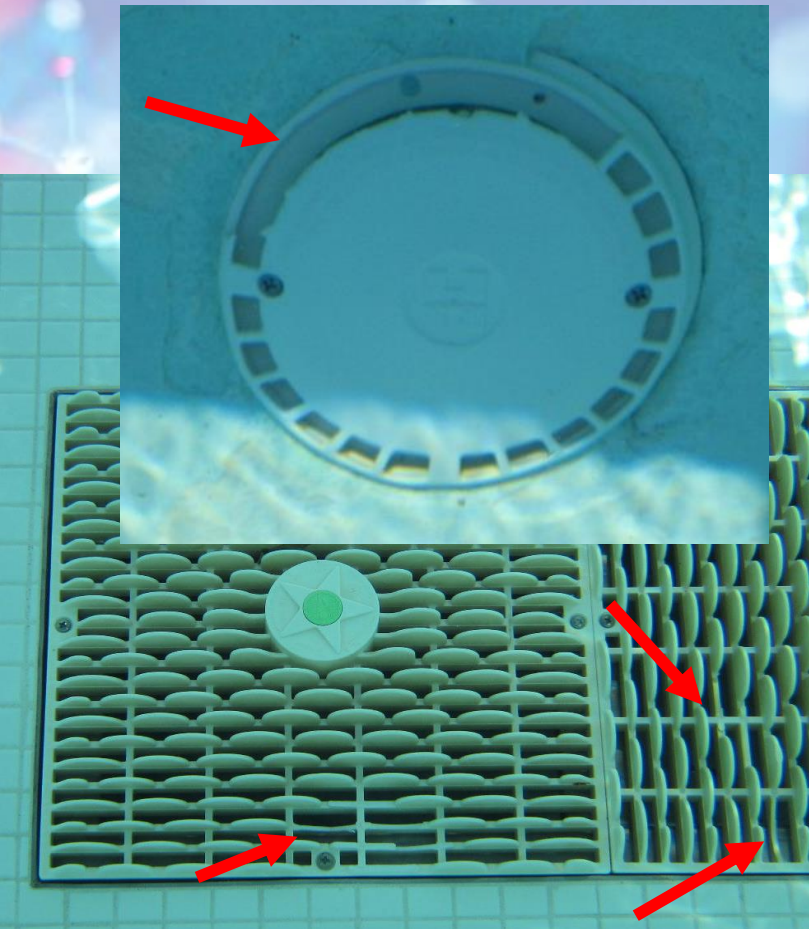
Gates that don't self-close and self-latch or large gaps in or below a fence can allow unattended children to access a venue, posing a drowning risk.





**Broken, unsecured,
or missing drain
covers**

**Risk of hair, limb, body
suction, evisceration,
and mechanical
entrapment**



- WARNING!** – Failure to remove pressure test plugs and/or plugs used in winterization of the pool/spa from the suction outlets can result in an increased potential for suction entrapment as described above.
- WARNING!** – Failure to keep suction outlet components clear of debris, such as leaves, dirt, hair, paper and other material can result in an increased potential for suction entrapment as described above.
- WARNING!** – Suction outlet components have a finite life. The cover/grate should be inspected before each use of facility and replaced at least every five years or if found to be damaged, broken, cracked, missing, not securely attached or missing screws. **DO NOT** use facility until corrected!

Key Access to Unstaffed Properties

- **5-501 Inspection Authority 5-501.1** Upon presenting proper identification, the **HEALTH AUTHORITY** shall have the right of access, entrance, inspection, and investigation of any **AQUATIC FACILITY** permitted by these Regulations.
- **5-501.2** Unless a **QUALIFIED OPERATOR** is available onsite all day, keys must be provided to allow access to the **AQUATIC VENUE**, pump room, **HYGIENE FACILITY**, and any other related areas.

HIGH RISK SURVEYS





WHY?

- To ensure bather health and safety
- To observe factors that could lead to non-compliance and provide appropriate guidance
- To allow facilities and inspectors additional time for Q&A
- NOT meant to be punitive, but closures can still happen

WHAT ARE THEY?

- One or more extra site visits in addition to the routine inspection
- Inspectors will focus on risk factors such as:
 - Lifeguards and attendants
 - Operation of slides, wave pools, lazy rivers, etc.
 - Water quality
 - Security and operational plans



WHO SHOULD EXPECT THESE?

Facilities currently in the administrative process (previous supervisory and/or managerial conferences due to a history of non-compliance)

Facilities that have risk factors such as:

- Lifeguards
- High bather load
- Security plans
- Waiver/variance conditions
- Activity pools
- Alternative water treatment systems or microbiological testing for water quality
- Primary use by children or medically compromised persons

Plan Review Workloads

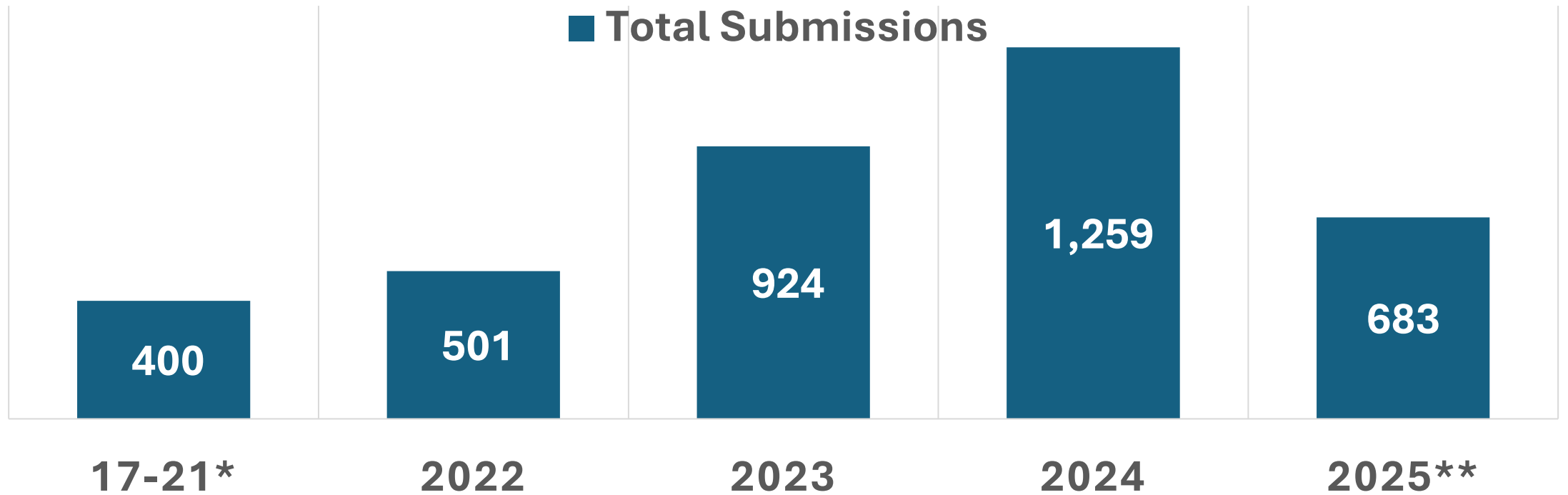
Increase in Remodel Submissions



Remodel Submissions

- Increased workloads leading to increased wait times for reviews
- 4 – 6 weeks between application submission and review is typical
- Venue must remain closed from start of work until final remodel approval
- SOFAs make up 70% of projects submitted in 2025

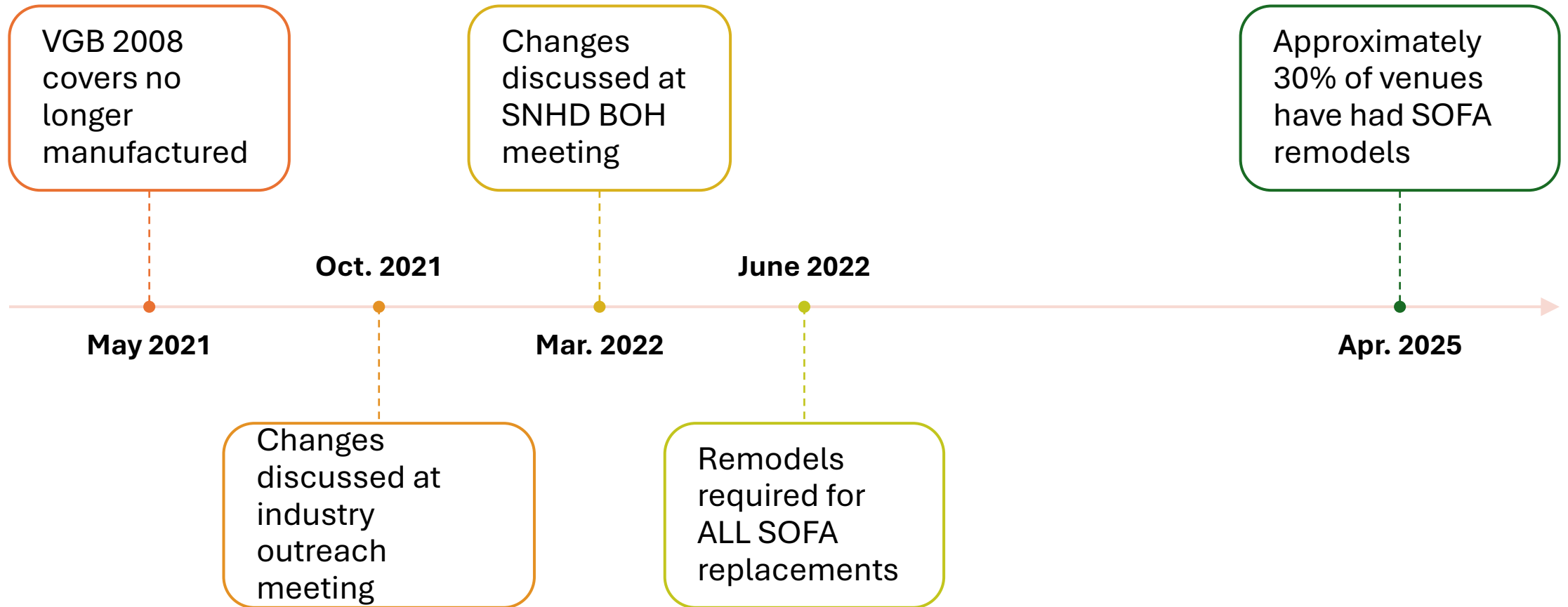
Increase in Workloads



*Average

**Projects submitted between Jan 1 and Apr 30

SOFA Timeline



SOFA Remodels

VGB 2008 to VGBA 2017 standard change requires all new SOFAs to be tested to new requirements

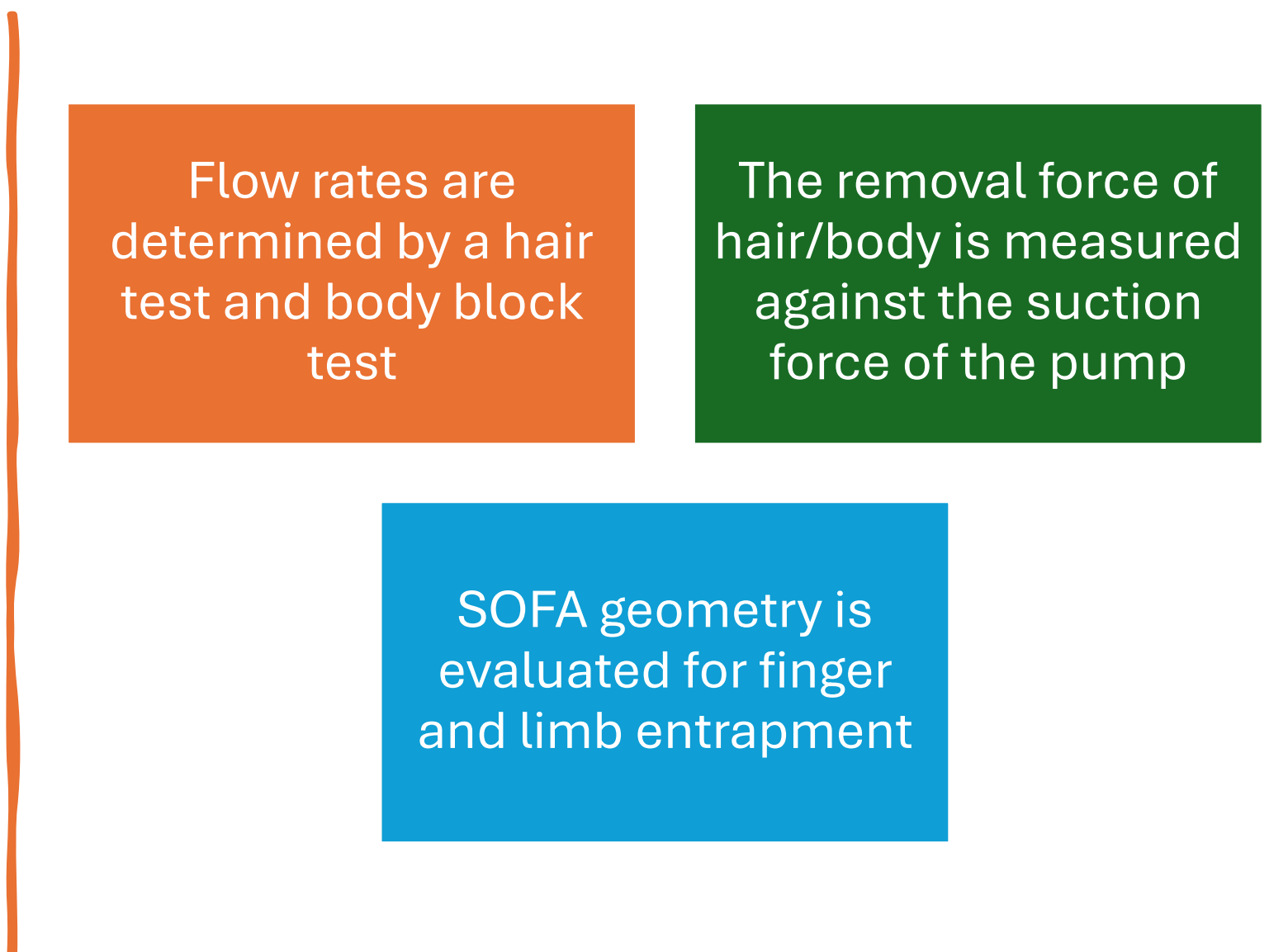
Remodels required for any change from 2008 to 2017 SOFA – “like-for-like” is not possible

Exact plumbing configuration in venue must be reviewed and inspected

Flow rating is dependent on pipe size and plumbing configuration

The maximum flow rating of the SOFA must exceed the maximum system flow of the pump

SOFA Testing



A vertical orange line on the left side of the diagram separates the title from the testing steps. Three colored boxes (orange, green, and blue) are arranged to the right of the line, each containing a step in the SOFA testing process. The orange box is at the top left, the green box is at the top right, and the blue box is at the bottom center.

Flow rates are determined by a hair test and body block test

The removal force of hair/body is measured against the suction force of the pump

SOFA geometry is evaluated for finger and limb entrapment

Entrapment Testing

Figure 17: Hair test approach

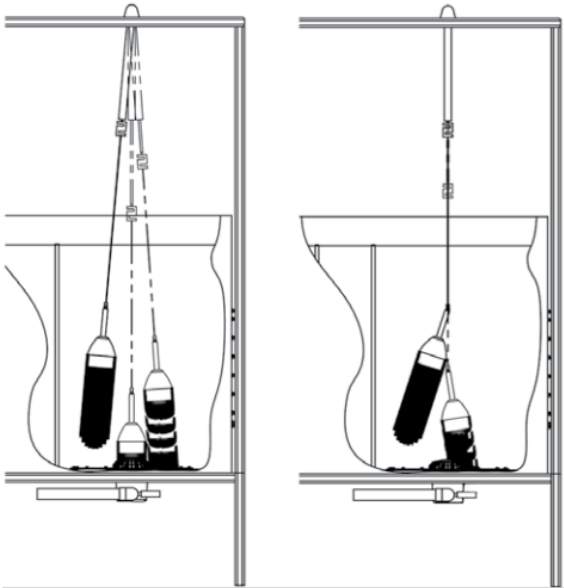


Figure 18: Body blocking element (BBE)

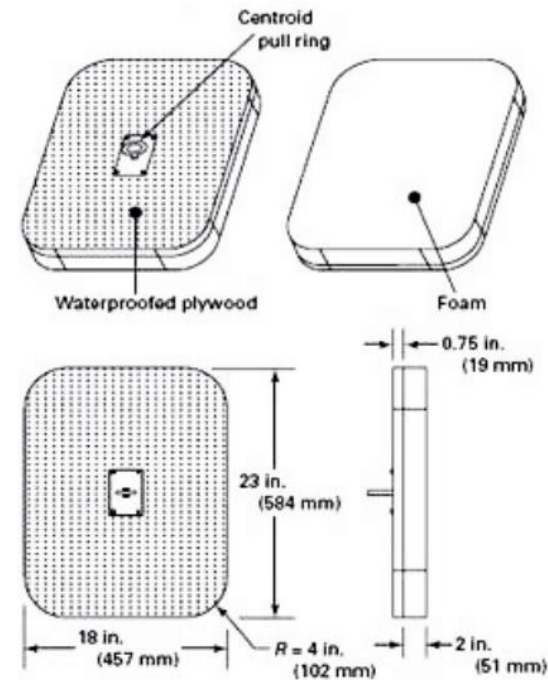
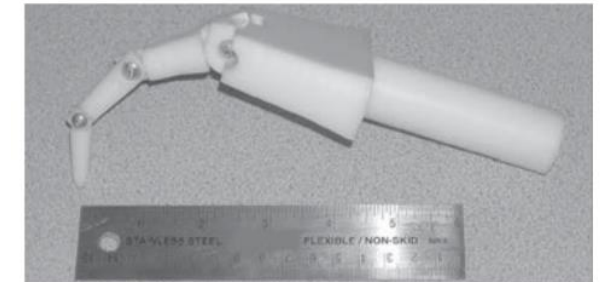


Figure 20: Photograph of "UL Articulated Probe"



Strategies Implemented

Program staff increased from 6 reviewers to 8

5 staff members dedicated solely to remodel projects

Shifted workloads from Plan Review to Operational team

Increased number of reviews completed per week

Accommodate expedited inspection requests when available

Reduced the number of inspections required in certain scenarios

Top 3 Reasons for Closure

SOFA's/DRAIN COVERS



A damaged drain cover poses an entrapment hazard and increases the risk of drowning

WATER CHEMISTRY



Inadequate disinfection exposes bathers to pathogens that can make them sick

ENCLOSURES



Failure to maintain a functional enclosure poses a drowning risk by allowing unattended children access to the area



Questions?