



COUNTY OF LOS ANGELES ♦ DEPARTMENT OF PUBLIC HEALTH  
ENVIRONMENTAL HEALTH  
BUREAU OF ENVIRONMENTAL PROTECTION  
SWIMMING POOL PROGRAM  
5050 Commerce Drive, Baldwin Park, CA 91706 – (626) 430-5360

11/20/2008

**ADVISORY CONCERNING THE VIRGINIA GRAEME BAKER ACT FOR  
PUBLIC POOL CONTRACTORS, ARCHITECTS, OWNERS AND OPERATORS**

In 2007, President Bush signed into law the Virginia Graeme Baker Pool and Spa Safety Act. The federal law requires that all public pools and spas be equipped with anti-entrapment drain covers/grates that comply with ASME/ANSI A112.19.8-2007 performance standards. In addition, the act requires that all public pools have split (dual) drains or be equipped with a safety vacuum release system or other device designed to prevent entrapment.

The Consumer Product Safety Commission is the primary enforcement agency for this act. The act requires that modifications be made by December 20, 2008. The Consumer Product Safety Commission's web site is located at <http://www.cpsc.gov>

The California State Department of Health Services is in the process of developing language that would place parts of the Virginia Graeme Baker Act into California State law. This however, may take some time, possibly well into next year.

In the interim, the Los Angeles County, Department of Public Health, Swimming Pool Program will have the following policies in place concerning split drains on public pools. These may be modified if and when the State of California enacts a new law.

Effective immediately, all new public pools and existing public pools that are resurfaced, renovated, replumbed or drained for any reason including acid-washing, shall comply with the following:

**New Pool Construction**

All new pool construction will, as in the past, require split drains that comply with the requirements (a) thru (i) below.

**Existing pools with split drain(s)**

For existing pools with split drains, if the pool is resurfaced, renovated or drained for any reason, the covers/grates will need to be replaced with approved anti-entrapment covers/grates as specified in requirement (e) & (h) below and if the pool has field-built sumps (no manufactured bowl below the cover), section (f) below. A plan approval is required by this Department, even for just replacement of covers. Drains replaced by divers will not be approved by this Department as a drained pool is required for proper inspection.

### **Existing pools with single drain(s)**

Beginning January 1, 2009, when a pool is resurfaced, renovated or drained for any reason, the pool must be retrofitted with split drains in compliance with requirements (a) thru (j) below.

### **Safety vacuum release systems and automatic pump shut-off systems**

This Department has no objections to the installation of safety vacuum release systems or automatic pump shut-off systems as a second layer of protection against entrapment, provided they comply with ASME/ANSI A112.19.17 performance standards.

This Department will not be responsible for determining whether the safety vacuum release system or automatic pump shut-off system has been properly installed per manufacturer's instructions, if it is functioning properly, has been calibrated, is being properly maintained or will be periodically tested, both now and in the future. This will be the responsibility of the owner/operator.

Pools with single drains will be required to be retrofitted with split drains when the pool is resurfaced, renovated or drained for any reason even though the pool has a safety vacuum release system or automatic pump shut-off system.

A plan check will be required by this Department so we can determine if it meets ASME/ANSI standards and to document its installation on that particular pool.

### **Important!**

Any person who proposes to build a new public pool, replasters or renovates an existing public pool, makes any plumbing changes, drains a pool for any reason, changes drain covers/grates or makes any equipment changes is required to submit plans to this Department and pay a plan check fee prior to commencing the work and in advance of the issuance of any permits. An online plan check application can be obtained at [http://publichealth.lacounty.gov/eh/docs/ep\\_sw\\_pools\\_planapp.pdf](http://publichealth.lacounty.gov/eh/docs/ep_sw_pools_planapp.pdf)

On the plan check application, if this is an existing pool, make sure and fill out all pool information. This is required even for something as simple as a drain cover change, as we need to know pump make/model, pipe material and size etc. to determine if the cover is sized properly.

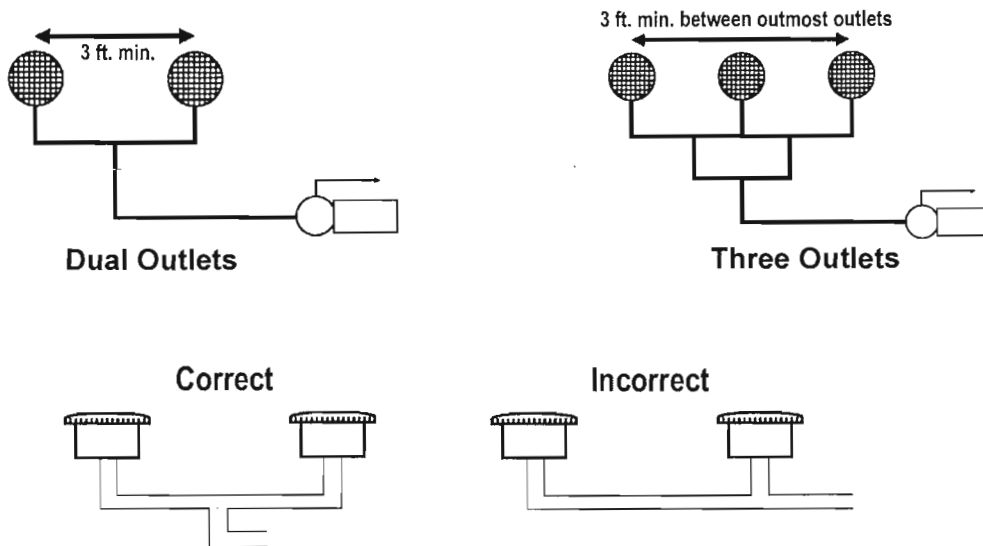
### **Contact information**

**Please check often at our web site for any changes to our requirements or changes to California State law. [www.publichealth.lacounty.gov/eh/sp.htm](http://www.publichealth.lacounty.gov/eh/sp.htm)**

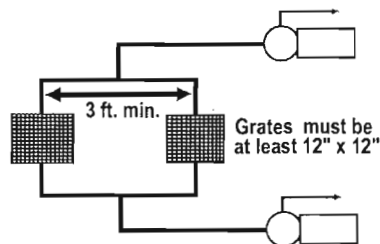
For more information you can call our office at (626) 430-5360 Monday through Friday 8:00 am to 4:30 pm.

## REQUIREMENTS:

- a. The suction side of each pump, located on any type of pool, shall be plumbed with at least two suction outlets. Suction outlets shall be separated by a distance of at least 3 feet, measured from the center of one suction pipe to the other. The suction drains must be plumbed with a T in the center that is hydraulically balanced. Each branch of the "T" must be at least the same size as the main suction plumbing. Note: Spas have two separate systems, one for the filtration and the other for the jets. Both systems need to comply with dual drain requirements.



- b. Each branch of a split suction shall terminate under its own suction outlet cover/grate. Except, suction plumbing from two different pumps may terminate under one suction outlet cover/grate if the combined flow rate of each suction pipe is less than the flow ratings of a single cover/grate.

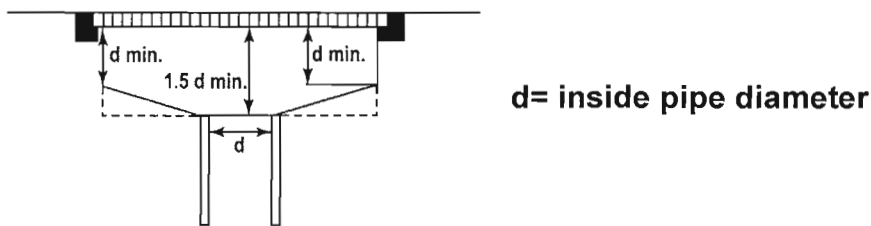


- c. In situations where room on the floor is limited, (e.g. in a spa), the suction outlets may be located less than 3 feet apart, as long as they are located on different design planes (e.g. one drain on the floor and one on the wall or two different walls) and as long as they are offset so a body cannot cover both suction outlet covers\grates. When a suction outlet is located on a wall, the bottom edge of the cover/grate shall be within 3 inches of the floor.

- d. The flow rating of each cover/grate shall be equal to or greater than the flow rating of the pump it is connected to. For example, if a pump is rated at 80 gpm at 60 feet of head, each cover/grate of the split suction must be rated at 80 gpm or greater. If 3 or more suction outlets are used, refer to the table below.

Number of covers/grates per system	Minimum flow rating of each cover/grate % maximum system flow rate
2	100%
3	66.7%
4	50%
5	40%
6	33.3%

- e. All drains/grates will be required to meet ASME/ANSI A112.19.8-2007 performance standards. A list of covers/grates, approved by this Department, can be obtained on our web site at [http://publichealth.lacounty.gov/eh/docs/ep\\_sw\\_pools equip.pdf](http://publichealth.lacounty.gov/eh/docs/ep_sw_pools equip.pdf).
- f. If the suction outlet cover/grate is not part of the manufactured sump and is placed on a field-built sump, the sump must comply with the following dimensions.



- g. All skimmers shall be dual port design. Skimmers shall be vented to atmosphere through an opening in the lid. Skimmers shall be connected to either an equalizer line or a main drain. A main drain connected to a skimmer requires split main drains.
- h. Cover/grate and sump requirements for main drains shall also apply to all equalizer lines except, the cover/grate is not required to be within 3 inches of the pool floor.
- i. Drain covers shall not be directly in line with diving boards.
- j. For pools with a single main drain that are being retrofitted, a single approved unblockable channel drain configuration shall be considered acceptable, provided it is on our approved equipment list. (Drains are considered unblockable if the size of the perforated area is 3 inches or greater in width and 31 inches or greater in length).