



## Suction Outlet Remodel Application

### Installation of a Suction Vacuum Release System (SVRS) onto the circulation pump

#### Existing Information:

Number of existing suction outlets: \_\_\_\_\_

#### New Suction Outlet Covers:

Manufacturer: \_\_\_\_\_ Model #: \_\_\_\_\_

Quantity: \_\_\_\_\_ Size: \_\_\_\_\_ Spacing: \_\_\_\_\_ Open Area for 1 Cover \_\_\_\_\_ sq. in.

Outlets are located on the  Floor  Wall  Both Listed Maximum Velocity: \_\_\_\_\_ fps

Maximum gpm of suction outlet \_\_\_\_\_  Floor  Wall  Dual

#### Sump Information:

Manufacturer: \_\_\_\_\_ Model #: \_\_\_\_\_

Other type of sump to be provided: \_\_\_\_\_

#### New Suction Vacuum Release System (SVRS)

Manufacturer: \_\_\_\_\_ Model #: \_\_\_\_\_

Quantity: \_\_\_\_\_ HP: \_\_\_\_\_ Phase: \_\_\_\_\_

### Calculate flow using Step #1 or Step #2 or Step #3

#### 1) Provide calculated flow from vacuum and pressure gauges for each pump.

\*\*\*Must provide manufacturer's pump curve.

Vacuum Reading = \_\_\_\_\_ x 1.133 = \_\_\_\_\_ in Hg

Pressure Reading = \_\_\_\_\_ x 2.31 = \_\_\_\_\_ psi

Total Dynamic Head = \_\_\_\_\_ in Hg + \_\_\_\_\_ psi = \_\_\_\_\_ feet of head

\_\_\_\_\_ Feet of head is \_\_\_\_\_ gpm (Using the manufacturer's pump curve)

Velocity = 0.321 x \_\_\_\_\_ gpm / \_\_\_\_\_ Open Area for 1 cover = \_\_\_\_\_ ft/sec

#### 2) Calculated flow from Design Flow Worksheet

Design Main Drain gpm from the archive file: \_\_\_\_\_ gpm

Velocity = 0.321 x \_\_\_\_\_ gpm / \_\_\_\_\_ Open Area for 1 cover = \_\_\_\_\_ ft/sec

#### 3) Unable to obtain Design Main Drain gpm

Body of water is drained.  No archive file

Max gpm capacity of the pump: \_\_\_\_\_ Max gpm for the suction outlet cover: \_\_\_\_\_

Contact E-mail address: \_\_\_\_\_

DISCLAIMER: The Southern Nevada Health District (SNHD) does not enforce the Virginia Graeme Baker Act. For many bodies of water to comply with the act, modifications will need to be made to existing pools and spas that are permitted in Clark County. Many of these modifications will require plan review and approval by SNHD prior to construction because the modifications will involve work that is regulated by NAC 444. The SNHD review is limited to the applicable sections of the Nevada Administrative Code Chapter 444 Public Bathing Place Public Spas dated January 17, 1996. The Virginia Graeme Baker Act applicability is not reviewed by SNHD. Revised 2/9/09