



State of Louisiana
Louisiana Department of Health
Office of Public Health

June 10, 2016

Brian Mistich, P.E.
Engineer
554 Old Spanish Trail,
Slidell, LA 70458

RE: Patio Villa Apartment Class C Swimming Pool
Metairie, LA

Dear Mr. Mistich,

Plans and specifications for the above named project have been reviewed. The plans are DISAPPROVED pending resolution of the following items which appear to be in conflict with applicable provisions of the State Sanitary Code, or upon which further information is needed.

1. Please provide the completed engineering services permit application form for the project.
2. Please clarify that the pool design data is accurate. The turn over rate was shown to be 4 hours with a volume of 17,294 gallons and pump operating at 102 gpm. The volume and pump data give a different turn over rate. The data in the Pool Design data boxes are not consistent from page to page. Please clarify the pools design flow rate with and without the deck jets enabled. Please provide consistent information.
3. Will the construction joints where the pool coping meets the concrete deck be water tight? LAC.51:XXIV.323.J, "Construction joints where pool coping meets concrete deck(s) shall be watertight and shall not allow water to pass to the ground beneath."
4. Plans show that there will be a overflow line from the pool to the sanitary sewer system. Please provide an indirect connection for the pool overflow line to the sewer system. If there is an inundation or clog in the system which causes the sewer to back up sewerage may drain into the pool. This presents a sanitation and health concern. Please address.
5. Skimmer suction lines and main drain suction lines can be valved off so that all of the pumps suction is drawn through one skimmer. With max flow (102 gpm) going through one skimmer line (2.5 in) the suction velocity is 6.67 ft/s. LAC.51:XXIV.5.3.A, "The

water velocity in the pool piping shall not exceed 10 feet per second for discharge piping, (except for copper pipe where the velocity should not exceed 8 feet per second), and 6 feet per second for suction piping, unless summary calculations are provided to show that the greater flow is possible with the pump and piping provided. Pool piping shall be sized to permit the rated flows for filtering and cleaning without exceeding the maximum head of the pump.”

6. Please provide manufacturer cut sheets which demonstrate that the main drain covers and the skimmer equalizer suction covers are VGBA ANSI/APSP 16 compliant.
7. The main drain suction covers open surface area was not at least 4 times larger than the main drain suction pipe. LAC.51:XXIV.511.C.1, “The main drain outlet grating shall have an area of openings four times the area of the discharge pipe to prevent objectionable suction effects.”
8. Please clarify if the pool will be indoors or outdoors.
9. Please clarify if the pool equipment room is existing or is new. Please clarify if the equipment room will be exhausted to the outside atmosphere.
10. A salt water chlorine generator was called out on plans. Please confirm that this is the intended design. If so please ensure that plans address the following items from MAHC 4.7.3.2.6, on resubmittal,

“4.7.3.2.6 Salt Electrolytic Chlorine Generators, Brine Electrolytic Chlorine, or Bromine Generators

4.7.3.2.6.1 Salt Electrolytic Chlorine Generators

In-line generator(s) or brine (*batch*) generator(s) shall be permitted on AQUATIC VENUES.

4.7.3.2.6.2 In-line Method

In-line generators shall use POOL-grade salt dosed into the AQUATIC VENUE to produce and introduce CHLORINE into the AQUATIC VENUE treatment loop through an electrolytic chamber.

4.7.3.2.6.3 Batch Method

Brine (*Batch*) generators shall produce CHLORINE through an electrolytic cell.

4.7.3.2.6.3.1 Chlorine Production

CHLORINE shall be produced from brines composed of POOL-grade salt.

4.7.3.2.6.4 TDS Readout

Electrolytic generators shall have a TDS or salt (*NaCl*) readout and a low salt indicator.

4.7.3.2.6.5 Feed Rate

The feed rate shall be adjustable from zero (0) to full range.

4.7.3.2.6.6 UL Standard

The generator unit shall be listed and labeled to UL 1081 (*for electrical/fire/shock safety*) by an ANSI-accredited certification organization.

4.7.3.2.6.7 Interlock

The generator(s) shall be interlocked per MAHC Section 4.7.3.2.1.3.

4.7.3.2.6.8 Installed

The generator units shall be installed according to the manufacturer's instructions.

4.7.3.2.6.8.1 Saline Content

The saline content of the POOL water shall be maintained in the required range specified by the manufacturer.”

11. How will the deck jet flow rate be controlled to only receive 20 gpm from the circulation pump? Letter of Intent from the State Health Officer Concerning Deck Jets. #3, “Water features such as water falls, fountains, deck jets, etc. in pools may use up to 20% of the return water from the filter system, however none of the water used in the feature shall be counted toward attaining the designed turnover rate. Return piping system shall be designed and capable of handling the additional feature flow when the feature is turned off. Features that require more than 20% of the flow rate shall be supplied by an additional pump that drafts from a suitable collector tank.”

Sincerely,



Brandon Comeaux, E.I.
Region 1 Engineer Intern
OPH – District I