



**COUNTY OF LAKE HEALTH SERVICES
DIVISION OF ENVIRONMENTAL HEALTH**

APPLICATION

FOR

PUBLIC SPA CONSTRUCTION

IN LAKE COUNTY

DIVISION OF ENVIRONMENTAL HEALTH

Lakeport Office:
 922 Bevins Court
 Lakeport, CA 95453
 Phone: (707) 263-1164
 FAX: (707) 263-1681



Date: _____

SUBJECT: Spa located at: _____

I, _____, the owner or agent of the above proposed Spa(s) do hereby agree to:
 Please Print

1. Provide deck drains or surface drainage in accordance with approved plans. California Code of Regulations, Title 24, Section 9018.
2. Construct dressing, shower and toilet facilities in accordance with approved plans. California Code of Regulations, Title 24, Section 9021.
3. Construct fencing and gates in accordance with approved plans. California Code of Regulations, Title 24, Section 9024.
4. Install all piping in accordance with approved plans and do not cover or backfill until inspected and approved by the County of Lake, Division of Environmental Health. California Code of Regulations, Title 24, Sections 9013, 9042, 9043.
5. Notify County of Lake, Division of Environmental Health of any alterations or deviations from the approved plans and obtain approval prior to making changes. California Code of Regulations, Title 22, Section 65509.
6. Notify County of Lake, Division of Environmental Health for inspection and approval 48 hours in advance of guniting or constructing the pool shell. California Code of Regulations, Title 22, Section 65511.
7. Notify County of Lake, Division of Environmental Health for inspection and approval at least two days in advance of placing the pool in operation. California Code of Regulations, Title 22, Section 65511. All equipment shall be fully functional and in operation. Water chemistry shall also be in compliance. The operator must submit an application for a permit to operate a public pool or spa along with the required permit fee prior to opening.

FOR INSPECTION CALL:

Lakeport: 263-1164

 Signature of Owner or Agent

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Plans accepted by the County of Lake, Division of Environmental Health are required to include certain pertinent information. If this information is not provided, the plan check review cannot be completed and Division approval of construction cannot be granted.

To assist you in assembling the necessary information, we have provided the attached checklist. Please check each section to ensure that the information has been provided and your submittal is complete. This checklist, while helpful, may not be inclusive. Please refer to State codes which are compiled in "The Design, Construction, Operation and Maintenance of Public Swimming Pools" for additional requirements and details which may be applicable to your specific project. Be advised that detailed decking, fencing, gate and ancillary facility plans are required before plans will be approved. ("By others" and "per code" are not acceptable.)

There are to be NO changes made which deviate from the plans and information submitted without Division approval shown on both the contractor's plan and check sheet and those copies held by the Division. To be valid, these approvals must be signed and dated by the County of Lake, Division of Environmental Health.

Completion and Approval – Contractor must notify County of Lake, Division of Environmental Health at least two full working days in advance for the pre-gunite inspection and two working days in advance of the final inspection before allowing use by the public.

Location of spa: _____

Owner's name & mailing address: _____

Owner's phone number: _____ Owner's FAX: _____

Spa designer's name & address: _____

Contractor's name & address: _____

Contractor's phone number: _____ Contractor's FAX: _____

FOR OFFICE USE ONLY

Date plans submitted: _____ Approved? (Y/N) _____ Date Notified _____

Reviewed by: _____ Inspector: _____

Pre-gunite inspection date: _____ Final inspection date: _____

Subsequent inspection dates: _____ Date Permit to Operate Issued: _____

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SPA POOL CHECK SHEET

Spa Name _____ Location/Address _____ City _____

Type of Spa: Spa Other _____

Volume of Spa in gallons: _____ Show calculation: _____

Surface Area: _____ Show calculation: _____

Required Turnover: _____ spa (1/2 hour)

Gallons per minute: _____ Show calculation: _____

Filter: Make and Model: _____

Area in sq. ft.: _____ Quantity of filters: _____ Total area in sq. ft.: _____

Pump: Make and Model: _____

Horsepower: _____ Quantity of pumps: _____ Total output in GPM: _____

Spa Booster Pump: Make and Model: _____

Horsepower: _____ Quantity of pumps: _____ Total output in GPM: _____

Cut sheet checklist: *One copy of each of the following cut sheets with make and model designated is included in this submittal:*

Recirculation pump with pump curve _____ Spa booster pump with pump curve _____

Skimmers _____ Filters _____ Disinfectant feeder _____ Flowmeter _____

Drain type _____ Hydrostatic relief valve _____

Gauges _____ Spa shell _____ Ladders _____ Stepholes _____ Handrails _____

SPA CONSTRUCTION CHECKLIST

ALPHABETICAL LISTINGS OF THE FOLLOWING CHECKLIST ARE BASED UPON SECTIONS CONTAINED CALIFORNIA HEALTH AND SAFETY CODE, CALIFORNIA CODE OF REGULATIONS, CALIFORNIA BUILDING CODE, AND CALIFORNIA ELECTRICAL CODE.

A. Plans (65505)

- _____ 1. Three sets of plans are submitted to scale with overhead view showing dimensions and sectional view showing slope.
- _____ 2. Plans for spa drawn to scale of 1 inch = 1 foot.
- _____ 3. Show spa location in relationship to all buildings on property. (Smaller scale acceptable on plot plan only.) Show North arrow.

B. Spa Construction (3106B)

- _____ 1. Maximum surface area 250 sq. ft.; maximum depth 4 ft.
- _____ 2. Finished in a pastel color or white.
- _____ 3. Bench and step edges to be a contrasting color.
- _____ 4. Spa free from projections or recessed area. EXCEPTION: Benches permitted in Spa pools if the water depth over a bench does not exceed 24 inches.

C. Permanent Markings (3109B)

- _____ 1. Spa and wading pools shall have at least 2 depth makers indicating maximum depth, minimum 4" high of contrasting color, clearly visible to bathers in Spa.
- _____ 2. Design on bottom or sides that resemble human forms is prohibited.
- _____ 3. Corresponding slip resistant depth markers strongly recommended on edge of deck.

D. Steps and Ladders (3110B)

- _____ 1. Tread width of each step minimum of 12 inches. Two safety rails required for 12 inch risers; one safety rail required for 9 inch riser. Leading railing edge extends to a point not less than 12 inches from the plane of the bottom riser.

E. Handholds (3111B)

- _____ 1. Located not more than 9 inches above water level.
- _____ 2. Bull-nosed coping or cantilevered decking or other types of handholds permitted.

F. Deck (3113B)

- _____ 1. 4 ft. minimum deck required on minimum of 50% of Spa perimeter. Spa deck to be at least 4 ft. wide at steps.
- _____ 2. Decking and coping shall be slip resistant.
- _____ 3. Six foot clearance between Spa and adjacent pool.
- _____ 4. Deck sloping at least ¼ inch per foot away from spa.
- _____ 5. If there are deck drains, not more than 400 square feet/drain and drains space not more than 25 feet apart.
- _____ 6. Landscape planters, flowerbeds, or similar unpaved areas shall not be located within 4 feet of Spa.
- _____ 7. Provide details of deck lighting showing compliance with Title 24, section 3115, i.e.: location of lights, wattage, etc.

G. Showers, Dressing Facilities, and Toilets (65551 and 3115B)

- _____1. One bather/15 square feet of pool surface. Divide factor by 2 to determine sex distribution.
- _____2. One shower/50 bathers. EXCEPTION: Showers and dressing facilities not required if available in adjacent living quarters.
- _____3. One toilet/60 women; one toilet and urinal/75 men; one lavatory/80 bathers. EXCEPTION: Restrooms not required if they are available within 300 ft. of pool at living quarter or adjacent building.
- _____4. Floor must be non-skid, slip resistant, and extend upward onto wall at least 5" with an integrally coved base and shall slope not less than ¼ inch/ft. to floor drains. (Carpet is not allowed in toilet or shower rooms.)
- _____5. Smooth moisture resistant wall finishes throughout.
- _____6. Design and construction to include provisions for privacy.
- _____7. Shower temperature control which limits temperature to 110F.
- _____8. Single service soap dispensers provided at lavatories and showers. Paper towel dispensers or hot air blowers provided at lavatories. Toilet paper dispensers provided at toilets.

H. Drinking Fountains (3117B)

- _____1. Guard angle jet drinking fountains required unless water is available at living quarters or adjacent building. Number of fountains based upon one bather/15 square feet and computed at 1 fountain/250 bathers plus an additional fountain for each additional 200 bathers.

I. Hose bibs (3117B)

- _____1. Provided at each Spa and protected against backflow.

J. Fencing and Gates (3118B)

- _____1. Provided at each spa and spa enclosed by 5 ft. minimum height fence, building, or enclosure.
- _____2. Openings in fence or enclosure not to exceed 4 inches.
- _____3. Bottom of enclosure to be within 2" of finished grade.
- _____4. Horizontal member designs to be spaced at least 48" apart. Chain link horizontal openings not to exceed 1 ¾ inches.
- _____5. Gate shall be equipped with a self-closing and self-latching device, which opens outward, and is located not less than 3 ½ feet above deck. Handles greater than or equal to 42" above ground.
- _____6. Gates are capable of being locked when spa is closed.
- _____7. Means of egress without a key provided. Label as "Emergency Exit" if not all exits are so equipped.

K. Signs (3119B) (65539)

- _____1. Occupant Load – 1 bather/10 sq. ft., 4" high letters.
- _____2. Spa use warning sign.
- _____3. Diagrammatic illustration of artificial respiration procedures and emergency telephone numbers (911)
- _____4. Gas Chlorine warning sign.
- _____5. Emergency shut-off switch sign.

L. Indoor Ventilation (3120B)

- _____1. Indoor Spas shall be adequately ventilated.

M. Spa Equipment Room (3121B)

- _____1. Equipment to be mounted on concrete pad and sloped at least ¼ inch per foot to drain, floor sink, or sump.
- _____2. Equipment room to have a light and to be properly ventilated.

N. Gas Chlorine Room (3122B)

- _____1. Room not located below ground level.
- _____2. Entry door shall open to the exterior of the building and shall not open directly towards the Spa or Spa deck.
- _____3. Fresh air intake within 6 inches of ceiling.
- _____4. Mechanical exhaust which produces at least 60 air changes/hour and is vented to outside air. Discharge located at least 10 ft. from windows or adjacent building.

O. Recirculation (3123B-3125B)

- _____1. All equipment and valves requiring inspection, adjustment, and repair are readily accessible.
- _____2. Spa flow velocity not to exceed 10 feet/second on inlet piping and 8 feet/second on suction piping. Show all pipe diameters.
- _____3. Pressure gauge on influent and effluent lines.
- _____4. Flow-meter.
- _____5. Hair and lint strainer on suction side of the recirculation pump.
- _____6. Vacuum gauge on suction type filters.
- _____7. Two spa pools permitted to share the same recirculation and treatment system provided that the flow and chlorination are individually metered and adjustable.
- _____8. Valves installed on recirculation, backwashing, and drain system lines requiring flow control.

P. Pump Capacities – Design flow (3126B)

- _____1. Pressure D.E. – 60 ft. head.
- _____2. Vacuum D.E. – 40 ft. head.
- _____3. Rapid sand – 45 ft. head
- _____4. High rate sand – 60 ft. head.
- _____5. Cartridge – 60 ft. of head.

Q. Water Supply (3127B)

- _____1. Permanently installed line not required.
- _____2. If a line is permanently installed then, air gap, vacuum breaker or double check valve required.

R. Filter Requirements (3128B-3131B)

- _____1. Rapid sand – maximum 3 GPM/sq.ft.; Backwash minimum 12 GPM/sq. ft.
- _____2. D.E. – maximum 2 gpm/sq. ft.
- _____3. High rate sand – suggested maximum 15 GPM/sq. ft.; backwash minimum 15 GPM/sq. ft.
- _____4. Cartridge – suggested maximum 0.375 GOM/sq. ft.

S. Disinfectant Feeder (3133B)

- _____1. Approved type. Provide cutsheet
- _____2. Provides the equivalent of three pounds chlorine per day per 10,000 gallons of pool water capacity. (Volume of pool in gallons x 0.0003 = required gallons per day.)

- T. Skimmers (3134B.1)(pool area not over 5000 square feet.)
- _____1. One skimmer for each 500 sq. ft. or fractional part hereof.
 - _____2. Capable of withdrawing minimum 75% required recirculation capacity.
 - _____3. If gpm through skimmer could be ≥ 50 , additional skimmer recommended.
 - _____4. Gate valve.
 - _____5. Equalizer line.
- U. Bottom Drain (3134B.3 and 3108B.2)
- _____1. Approved type drain cover..
 - _____2. Cutsheet provided for flat bottom drain grate(s) showing open area in square inches. Open area must be such that velocity is less than or equal to 6.2 gpm.
 - _____3. Designed so that the spa can be emptied and circulation can take place.
 - _____4. Grates/ cover removable only with tools.
 - _____5. Duplicate drains for both the recirculation system and aeration/jet system or single drains with safety covers for both systems.
 - _____6. Cutsheet provided for equalizer grate showing it is anti-hair entrapment.
 - _____7. Gate valve.
- V. Inlets (3134B.5)
- _____1. Minimum of 1 inlet permitted.
 - _____2. Adjustable fittings required.
- W. Aeration/jet system (3135B)
- _____1. Shall be separate from filtration system and no interconnected with non-spa pool.
 - _____2. Flat grates for spa booster system or anti-hair entrapment type cover.
- X. Waste Disposal (3137B)
- _____1. Required air gap connection to sewer or sight glass.
 - _____2. Show location sump in equipment room for backwash and spa draining. (Sump dimensions of 2' x 2' x 2' recommended.)
 - _____3. Specify that sump drains to sanitary sewer.
 - _____4. Indirect connection required.
 - _____5. Consult with the Division of Environmental Health regarding disposal of spa water and backwash water into a septic system.
- Y. Electrical (116049-116049.1)
- _____1. Underwater light and area lighting if Spa used at night.
 - _____2. Encapsulated terminals and ground-fault circuit interrupter required.
 - _____3. Spa emergency shut-off switch.
 - _____4. See Sections 680-12 and 680-13.