FINDING SWIMMING POOL LEAKS

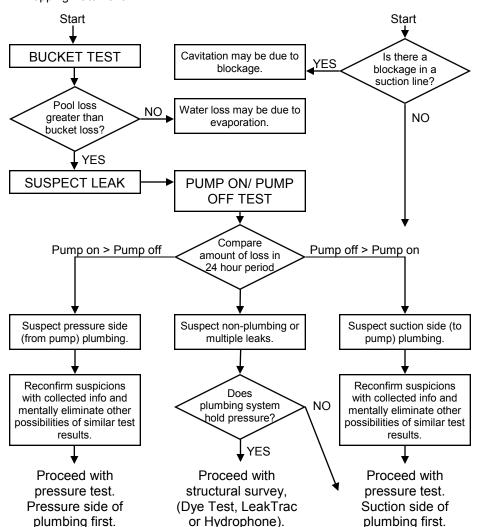
INFORMATION GATHERING STEPS

OBSERVATIONS:

- Excessive chemical usage
- Algae growth
- High water bills
- Dropping water level

OBSERVATIONS:

- Air or dirt blown into pool
- Air in pump





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Information Gathering

Preliminary Information

- 1. Type of pool?
- 2. Age of pool?
- 3. Pool builder?
- 4. Normal pool activity?
- 5. Attached spa?
- 6. Infloor cleaner lines? waterfalls? fountains? solar heater?
- 7. Recent construction activity?
- 8. Recent natural occurrences? (earthquake, cold winter, etc.)
- 9. Other leak detections done?

Bucket Test

(To determine if water loss is due to evaporation or a leak.)

- 1. Fill pool to normal level.
- 2. Fill bucket and place in pool.
- 3. Mark level in pool and bucket.
- 4. Operate pool as when initial loss was
- 5. Measure water levels in bucket and pool after 24 hours.
- 6. If pool loss > bucket loss there is a leak.

How much is it losing in gallons? - (A good indication of leak size.)

Inches of water loss due to leak (pool loss less bucket loss) .62 gallons/inch per square foot

Square footage of pool surface

Pump On/Pump Off Test - (A good indication of what part of the pool is leaking.)
Compare results of bucket test done while the pump is running to results when the

Compare results of bucket test done while the pump is running to results when the pump is off. If necessary, isolate individual flow systems, (for example spa only, cleaner lines only, fountain only, etc.)

Pump On loss > Pump Off loss — Pump Off loss > Pump On loss — Pump Off loss = Pump On loss —

Suspect pressure side plumbing
 Suspect suction side plumbing
 Suspect pool shell, liner, or fittings

Observations At Pool

- 1. Air in pump or blown into pool?
- 2. Any visible leaks at equipment?
- 3. Leaky backwash valve?
- 4. Other leaky "inter-system" valves?
- 5. Signs of deck movement?
- 6. Tile popping out?
- 7. Mushy spots in lawn?
- 8. Signs of water damage?
- 9. Water line marks inside of pool?
- 10. Other?

Common Structural Leak Areas (to check with dye tester)

- 1. Tile line
- 2. Skimmer bond to pool
- 3. Skimmer throat
- 4. Lights conduit, grounding screw, niche bond to pool
- 5. Pipe openings into pool
- 6.Cracks
- 7. Vinyl liners (use LeakTrac)
- 8. Main drain and hydrostatic valve



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