



Clark County Department of Building & Fire Prevention

Building Division – Inspection Services

Field Inspection Guideline

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|------------------------|---|---------------------|---------------------|------------|
| SUBJECT: | Sumps, Ejectors, and Receiving Tanks | FIG-P-037 | | |
| Effective Date: | March 30, 2009 | Revised: New | Approved By: | GJF |
| Code Chapter: | 2006 UPC Section 710.9 | | Page 1 of 1 | |

Interpretation:

The 2006 UPC provides guidelines for “public use” applications where sumps, ejectors, lift stations and receiving tanks are to be installed. “These units shall have dual pumps arranged to function alternately in normal use and independently in case of overload or mechanical failure. The pumps shall have an audio and visual alarm, readily accessible, that signals pump failure or an overload condition.”

Field Application:

The audio and visual alarm activation shall be verified by the inspection staff. All testing and activation procedures shall be performed by the contractor, installer or manufacturer of the equipment. This procedure can be done by:

The contractor shall have the tank filled with water to a level in which the pumps and floats are ready for inspection. Both manual switches shall be set to **AUTO RUN** when the inspector arrives at the vessel.

As the pump starts up, shut down the pump by turning the pump manual switch to the off position, signaling failure.

NOTE: At this point the audio and visual alarm should sound and the reserve or second pump should start up. Turn both manual switches to the off position and continue to fill with water, the overflow audio and visual alarm should activate.

This same procedure can be performed **without the use of water** by lifting the proper floats. The first float is an off/on float.

To set controls to the ready position, lift the second float and rotate until the pump starts. Holding the float in the run position, turn manual switch to off, both audio and visual alarms should sound. Lift float number four (4) and rotate to simulate overload condition, both audio and visual alarms should sound.

In lieu of a visual test of the alarm system, this department will accept a letter from the manufacturer (on their letterhead) of verification that the alarms did activate properly at the initial start-up of the equipment.

Special Alert and Warning:

No inspection team member shall ever enter a confined space to perform or verify a testing procedure. See your copy of the Divisional Safety Plan for guidance.