

Summary of Significant Changes
between the updates dated May 29, 2009 and March 28, 2011 of
UL 499, “Electric Heating Appliances”
(13th edition dated November 17, 2005)

General: A number of specific requirements for hybrid adhesive guns, pet heating mats/pads, flexible pet heating mats/pads, rigidly and semi rigidly enclosed pet heating mats/pads, stock tank deicers, pond deicers, bucket heaters, heated pet bowls, steam-bath generators, metal sheathed heating elements components were added. A supplement for direct plug-in heating appliances was also added. There are no listings for most of those devices.

However, there will be a major impact on 2 certification files because new constructional requirements for metal sheathed heating elements components were added in Sections 68 to 80.

Section 5A: New requirements for the construction and assembly of heating appliance components

Section 6: New requirements for frame and enclosure construction were added to address pet heating mats and outdoor use equipment and non-metallic enclosures.

Section 11: Power supply cord requirements were added for hand supported heating appliances, stock tank deicers, pond deicers, heated pet mats, bucket heaters, bucket deicers, and heated pet bowls.

Revisions to

Table 11.1, Lengths and types of cord connections, was revised.

Table 11.5, [*Thermoplastic Constructions*](#), was added

Section 30.2: A new section was added for [*semi-rigid enclosed pet mats/pads testing*](#)

Section 33.13: A new section was added for [*Hybrid adhesive gun testing*](#).

Section 33.14: A new section was added for [*Semi-rigid enclosed pet heating mats/pads testing*](#).

Table 33.3: A new table for [*Maximum acceptable temperatures*](#) was added.

Section 35.5: A new section was added for [*hybrid adhesive gun testing*](#).

Section 39.19: A new section was added for [*hybrid adhesive gun testing*](#).

Section 43A: A new section was added for [*flexible pet heating mats/pads testing*](#).

Section 43B: A new section was added for [*hand supported heating appliance testing*](#).

Section 43C: A new section was added for [*hand supported heating appliance testing*](#).

Section 47: Marking requirements were added for hand supported heating appliances, hybrid adhesive guns, stock tank deicers, pond deicers, heated pet mats, bucket heaters, bucket deicers, heated pet bowls and insect and rodent control equipment.

Section 48: Additional instruction requirements were added for [hybrid adhesive guns](#) and [hand supported appliances](#).

Sections 62 through 67: The new sections expand the scope to include [steam-bath generators](#)

Sections 68 through 80: The new sections expand the scope to include [metal sheathed heating elements components](#)

Sections 81 through 84: The new sections are a supplement or in some cases modify the general requirements in sections 6-67 for [direct plug-in heating appliances](#)