Proposed Revisions

• During the balloting of revisions to Section 6 Centrifugal Pumps for Pump Efficiency and Performance 50i77r1 suggestions were made:

• Add additional energy efficiency standards to the Normative References Section 1.5 and Section 6.6.3 – or remove energy efficiency references from the standard.

• Restrict the exemption in Section 6.6.1 for pumps not requiring pump curves to those that are less than 5 hp to 0.75 hp (0.56 kW).
Proposed Revisions

• Add the following to the data plate requirements in section 6.9.1:
  – Maximum design flow rate,
  – Total dynamic head,
  – Horsepower,
  – Impeller size.
Proposed Revisions Energy Efficiency

• **6.6.3** If energy efficiency performance testing is requested by the manufacturer, evaluate the pump in accordance with Annex C, section C.4 California Energy Commission CEC-400-2009 Title 20 or USEPA’s Energy Star Pool Pump Performance, CEE High Efficiency Residential Swimming Pool Pump Specification, CSA 840-Performance of Pool Pumps, or ANSI APSP/ICC-15 Residential Swimming Pool and Spa Energy Efficiency.

• Or should we remove energy efficiency references from the standard altogether.
Pump Performance Curves

• Current exemption for pumps less than 5 hp.

• Should this be reduced to 0.75 hp?

• 6.6.1 For each pump model or model series, the manufacturer shall provide a pump performance curve that plots the pump’s total dynamic head versus the discharge flow rate. The manufacturer shall also have a curve available that plots the net positive suction head (NPSH) or total dynamic suction lift (TDSL), brake horsepower, and pump efficiency in relation to the performance curve.

• NOTE – Pumps with a rating of less than 0.75-5 HP (3.7 0.56 kW) or less are not required to have a NPSH curve.
Data Plate Requirements

6.9.1 A pump shall have a data plate …:

• manufacturer's name and contact information (address, phone number, website, or prime supplier);
• pump model number;
• maximum design flow rate;
• total dynamic head;
• horsepower;
• impeller size;
• pump serial number, date code, or specification number;
• whether the unit has been evaluated for swimming pools or spas/hot tubs, if not evaluated for both applications; and
• designation as a self-priming or non-self-priming pump. If the pump is self-priming the maximum vertical lift height shall be specified.