## Summary of Appliance Standards in the Energy Independence and Security Act
### January 2008

Note: For complete details on the technical standards, scope of coverage and exemptions, and test methods, see the legislation. Go to [www.thomas.gov](http://www.thomas.gov), search for “HR 6” by bill number and view the version as passed by both the House and Senate. Relevant section numbers are included in the table below.

<table>
<thead>
<tr>
<th>Product</th>
<th>Bill section</th>
<th>Technical standard in legislation</th>
<th>Effective date</th>
<th>Rulemakings for upgrades</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial three-phase central air conditioners under 65 kbtu/h</td>
<td>314</td>
<td>SEER 13</td>
<td>June 2008</td>
<td>No special requirements</td>
<td>Sets commercial AC standard equal to residential standard for similar equipment</td>
</tr>
<tr>
<td>Dehumidifiers</td>
<td>311</td>
<td>Min. EF varies by capacity from 1.35 to 2.5</td>
<td>10/1/2012</td>
<td>No special requirements</td>
<td></td>
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<tr>
<td>Electric motors</td>
<td>313</td>
<td>General purpose motors between 1 and 200 HP must meet NEMA premium efficiency levels; many motor types and sizes excluded from prior federal standards must meet the EPACT 1992 standard levels</td>
<td>Dec. 2010</td>
<td>No special requirements</td>
<td></td>
</tr>
<tr>
<td>External power supplies</td>
<td>301</td>
<td>No more than one-half watt in no load mode and minimum active mode efficiency which varies by output.</td>
<td>7/1/2008</td>
<td>By 7/1/2011, effective 7/1/2013 and by 7/1/2015, effective 7/1/2017</td>
<td>Initial standard excludes some power supplies that are part of battery charging systems</td>
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<tr>
<td>General service lamps</td>
<td>321</td>
<td>Maximum wattage levels vary by lumen output</td>
<td>1/2012 to 1/2014, depending on lumen range</td>
<td>By 1/1/2017, effective 1/1/2020 and by 1/1/2022, effective 1/1/2025</td>
<td>First rulemaking must save as much as a min. 45 lpw standard; if not the standard is 45 lpw</td>
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<tr>
<td>Metal halide lamp fixtures</td>
<td>324</td>
<td>88% ballast efficiency for pulse start; 94% ballast efficiency for magnetic probe start</td>
<td>1/2009</td>
<td>By 1/1/2012, effective 1/1/2015; and 1/1/2019, effective 1/1/2022</td>
<td>CA preemption waived for standards issued prior to 1/1/2011 or if DOE misses deadlines</td>
</tr>
<tr>
<td>Reflector lamps</td>
<td>322</td>
<td>Extends 1992 reflector standards to previously exempted lamp types</td>
<td>June 2008</td>
<td>No special requirements</td>
<td></td>
</tr>
<tr>
<td>Residential boilers</td>
<td>303</td>
<td>82% min AFUE for gas hot water; 84% for oil hot water plus no standing pilots and automatic temperature reset</td>
<td>9/1/2012</td>
<td>No special requirements</td>
<td></td>
</tr>
<tr>
<td>Residential clothes washers</td>
<td>311</td>
<td>MEF = 1.26 or greater Water factor = 9.5 or less</td>
<td>1/1/2011</td>
<td>By 12/31/2011, effective 1/1/2015.</td>
<td></td>
</tr>
<tr>
<td>Residential dishwashers</td>
<td>311</td>
<td>No more than 355 kWh per year and 6.5 gallons water per cycle</td>
<td>1/1/2010</td>
<td>By 1/1/2015; effective 1/1/2018</td>
<td></td>
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<tr>
<td>Residential furnace fans</td>
<td>304</td>
<td>None</td>
<td>None</td>
<td>By 12/31/2013</td>
<td></td>
</tr>
<tr>
<td>Residential refrigerators</td>
<td>311</td>
<td>None</td>
<td>None</td>
<td>By 12/31/2010, effective 1/1/2014</td>
<td></td>
</tr>
<tr>
<td>Walk in coolers and freezers</td>
<td>312</td>
<td>Multiple prescriptive requirements affecting the thermal enclosure, motors and lights</td>
<td>1/1/2009</td>
<td>By 1/1/2012, effective 1/1/2015 and by 1/1/2020, effective 2023</td>
<td>Preemption sunsets if DOE misses deadlines; CA standards set before 1/1/2011 not preempted</td>
</tr>
</tbody>
</table>

1 Under the new law, DOE must periodically review each standard and related test methods for potential amendment. Within six years of any final rule establishing a new standard, DOE must either propose a new standard or determine that no amendment is warranted. A proposed new standard must be made final within two years of a proposed standard’s publication and can be effective three to five years after final rule publication, depending on the product. However, no new standard issued under this provision can be required within six years of a prior required standard for that product. Any determination that no new standard is warranted must be revisited every three years. Any reviews specifically required for a given product or reviews triggered by ASHRAE revisions are unaffected by this periodic review provision. In other words, reviews must happen every six years, but other provisions of law may require an earlier review. Test methods must be reviewed at least every seven years. (Note: the new law also removes the requirement for a formal Advanced Notice of Proposed Rulemaking (ANOPR).)

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