Dear Sir/Madam

REQUIREMENTS FOR INSTALLATION OF PRIVATE WATER METERS FOR NEW DEVELOPMENTS

Further to our circular WSN 92802/49 dated 13 October 2014, PUB would also like to draw your attention to Sub-clause 7.2(i) of the Singapore Standard CP 48: 2005 – Code of Practice for Water Services which stipulates the requirement for installation of private water meters to measure water consumption at various water usage areas for water conservation. In compliance with this stipulation, PUB would like to inform all Professional Engineers and Licensed Water Service Plumbers that PUB also requires:

a. All new non-domestic developments (with the exception of developments with temporary water supply) with estimated monthly water consumption of 3,000 cubic metres or more to be installed with private water meters.

b. For all new developments with temporary water supply, the requirement for installation of private water meters will only apply to developments with estimated monthly water consumption of 5,000 cubic metres or more.

Sub-clause 7.2(i) and more details on the installation of the private water meters are given in Annexes A and B.

2. As part of the above PUB requirements, PUB will be revising the Notification of Water Service Work Forms to require Professional Engineers and Licensed Water Service Plumbers to declare that the above requirements have been complied with. Additionally, the private water meter locations shall also be indicated in the water schematic drawings to be submitted with the Notification of Water Service Work Forms.

3. All Professional Engineers and Licensed Water Service Plumbers are reminded to comply with the above requirements.
I would appreciate it very much if you could bring the contents of this circular to the attention of your members/staff. Please do not hesitate to contact Ms Wong Wai Cheng at Tel: 67313556 or email: wong_waicheng@pub.gov.sg if you need further clarification.

Thank you.

Yours faithfully

[Signature]

RAMAHAD SINGH
CHIEF ENGINEER (WATER DEMAND MANAGEMENT & INSPECTORATE) for DIRECTOR WATER SUPPLY (NETWORK) DEPARTMENT

Encs.
ANNEX A

Subclause 7.2(i) of the Singapore Standard CP 48: 2005 – Code of Practice for Water Services

7.2 Water conservation measures

Water conservation measures are to be adopted at various areas including the following:

(i) Other areas in domestic (where applicable) and non-domestic premises as follows:

- Install private water meters to measure water consumption at various areas such as cooling towers, swimming pools, kitchens, guestrooms, gardens, landscaped areas, toilets, boilers, etc and to monitor and track the water consumption at these areas for water usage and leakage control management.
Private Water Meters to be Installed to Measure and Monitor Amount of Water Used at Each of the following Water Usage Areas

The private water meters installed shall be painted grey in colour with a colour code of BS4800:00A9 or RAL 7037 or equivalent. The private water meters shall also be clearly labelled to indicate the water usage area monitored. Labels used shall be durable and clearly legible.

<table>
<thead>
<tr>
<th>Sector</th>
<th>Private water meters to be installed to monitor amount of water used at each of the following water usage areas</th>
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</thead>
<tbody>
<tr>
<td>1. Industries</td>
<td>(a) Process</td>
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<tr>
<td></td>
<td>(b) Cooling tower</td>
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<td></td>
<td>(c) Boiler</td>
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<td></td>
<td>(d) Scrubber</td>
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<td>(e) Cooking area or kitchen</td>
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<td></td>
<td>(f) Toilet</td>
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<td>2. Hotels</td>
<td>(a) Guestroom</td>
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<td></td>
<td>(b) Cooling tower</td>
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<tr>
<td></td>
<td>(c) Food and beverage outlet</td>
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<tr>
<td></td>
<td>(d) Production kitchen</td>
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<td></td>
<td>(e) Laundry</td>
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<td></td>
<td>(f) Cold water inlet to hot water supply or boiler</td>
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<td></td>
<td>(g) Swimming pool</td>
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<tr>
<td>3. Tertiary institution, prison, or military or</td>
<td>(a) Cooling tower</td>
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<tr>
<td>defence installation</td>
<td>(b) Toilets for each block</td>
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<td></td>
<td>(c) Washing area</td>
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<td></td>
<td>(d) Swimming pool</td>
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<td>4. Hospitals</td>
<td>(a) Cooling tower</td>
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<td></td>
<td>(b) Toilets, w.c.s and operating theatres for each block</td>
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<td></td>
<td>(c) Kitchen</td>
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<td></td>
<td>(d) Cold water inlet to hot water supply or boiler</td>
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<td>5. Workers' Dormitories</td>
<td>(a) Toilets for each block</td>
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<td></td>
<td>(b) Cooking area</td>
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<td></td>
<td>(c) Laundry</td>
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<td></td>
<td>(d) Washing area</td>
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<tr>
<td>6. Construction Sites and Concrete Batching Plants</td>
<td>(a) Construction activity</td>
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<td></td>
<td>(b) Recharge well</td>
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<td></td>
<td>(c) Concrete production</td>
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<td>(d) Toilet</td>
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<td></td>
<td>(e) Vehicle washing area</td>
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<td>7. Sports and Recreational Facilities and</td>
<td>(a) Cooling tower</td>
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<td>Tourist Attractions</td>
<td>(b) Exhibit or enclosure</td>
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<td></td>
<td>(c) Washing area</td>
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<td>(d) Toilet</td>
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<td>(e) Food and beverage outlet</td>
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<td>(f) Irrigation</td>
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<td>(g) Swimming pool</td>
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<td>8. Office or retail building, or any other building</td>
<td>(a) Cooling tower</td>
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<td>that are not mentioned in items 1 to 7</td>
<td>(b) Toilet</td>
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