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# Regulations on Governing Professional Engineer Certification for Water Intake Constructions, Water Treatment Facilities and Water Supply Facilities of the Reclaimed Water Development Projects

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**Announced Date:** 2016-8-17

**Legislative History:**A Total of 9 articles were promulgated on August 17, 2016 by the ordinance of the Ministry of Economic Affairs Ref. No. Ching-Shui-Tzu 10504603910

**Article 1** These Regulations are enacted pursuant to Paragraph 2 of Article 13 of the Reclaimed Water Resources Development Act.

**Article 2** The terms used in these Regulations are defined as follows:

1. Water intake construction: Refers to the structures, pumps, water intake and diversion pipelines and ancillary facilities for intercepting sewer system wastewater (sewage) or effluent water.
2. Water treatment facilities: Refers to pre-treatment facilities, water purification treatment facilities, dosing

equipment, disinfection facilities, sludge treatment facilities, deodorization equipment and ancillary facilities to improve the quality of wastewater (sewage) or effluent water.

3. Water supply facilities: Refers to pumps, water conveyance pipelines, distribution reservoirs, water distribution pipelines and ancillary facilities for the conveyance and distribution of systemic reclaimed water.

**Article 3** The construction design and supervision of water intake construction, water treatment facilities and water supply

facilities for Reclaimed Water Development Projects shall be handled and certified by professional engineers; the

scope, items for certification, and the professional engineer specializations categories are per the attached table.

In the event that the certification and scope mentioned in the preceding Paragraph involves the practices of

professional engineers in two or more engineering categories, one professional engineer designated by the

Reclaimed Water Operator shall be responsible for the integration and be jointly responsible for the certification with

the other professional engineers.

**Article 4** A professional engineer shall, while conducting the certification, sign and affix a professional engineer seal on the

drawings, documentation and certification reports so produced.

**Article 5** A professional engineer, conducting certification, shall submit the certification report to the Reclaimed Water

Operator regarding the matters processed, and report such to the municipal or county (city) competent authority

or the competent authority governing the Specific Area for reference. The

contents of the certification report shall

include the following items:

1. Project name and project file number.
2. The professional engineer's full name, engineering category and practice license number.
3. Legal reference for certification.
4. Reclaimed Water Operator's name, address and responsible person.
5. Particulars consigned and date of consignment.
6. Name and address of the consigned firm.
7. Certification scope, items, contents and opinions.
8. Date of certification.

**Article 6** A professional engineer, when conducting certification, shall keep a record of the certification process. The record,

along with all the relevant data and documents, shall be compiled into worksheets.

The worksheets are the main basis for the professional engineer in creating the drawings, documents and

certification reports; the compilation of such shall conform to the following requirements:

1. Shall expressly indicate sources of major facts and figures, and dates of acquirement; with data calculated or judged by the professional engineer himself/herself, the records indicating the calculation process or the basis of judgment shall be listed.
2. When conducting on-site audit, the auditing methods, process and completion date shall be provided along with photos of the on-site audit.
3. Where major facts or figures are quoted among the worksheets, the page numbers of the references and

indices shall be expressly marked.

4. The worksheets shall be systematically and serially numbered to indicate the pages and bound into volumes.

5. The first page of the worksheets shall be signed by the professional engineer and affixed with the professional engineer seal.

**Article 7** Professional engineers are obliged to maintain confidentiality and custodial responsibilities regarding the

worksheets. Except be ordered to provide for reviewing according to laws and decrees or borrowed by the

Reclaimed Water Operator, professional engineers shall not leak any information thereof. Professional engineers

shall further keep such worksheets for a minimum of five years from the date on which the certification report is

submitted; where the professional engineer organizes a professional engineering consulting firm or is hired by

such, or is hired by a profit-seeking enterprise or entity (not the above-mentioned) which is required by law to

hire a licensed professional engineer, the practicing entity shall take custody of the worksheets.

**Article 8** Professional engineers shall provide certification records made for services rendered to the municipal or county (city)

competent authority or the competent authority governing the Specific Area for reference every six months.

The contents of such records shall include:

1. The Reclaimed Water Operator's full name or title and address.
2. Particulars consigned and date of consignment.
3. Date and photos of the on-site auditing.

4. Content summary for the certification.

5. Date of certification. Where a professional engineer fails to provide the above for reference as required in the

preceding Paragraph, or fails to correct errors reported or fails to correct in full within the time limit specified

when given notice, then pursuant to the Professional Engineers Act, the interested parties, competent authority,

authorities governing the relevant industries or the professional engineer association may report the case with

facts and exhibits to the professional engineer discipline committee for due punishment.

**Article 9** These Regulations become effective as of the date of promulgation.

#### Appendix

Schedule of Scopes, Items and Engineering Specializations of Professional Engineer Certification for Water Intake Constructions, Water Treatment Facilities and Water Supply Facilities of the Reclaimed Water Development Projects

Construction category <sup>o</sup>	Scope of implementation <sup>o</sup>		Certification items <sup>o</sup>	Certified engineer specialization <sup>o</sup>
Water intake construction for	Maximum daily water intake quantity reaches 5,000 cubic meters or more. <sup>o</sup>		Design_ construction supervision <sup>o</sup>	Hydraulic engineering_ civil engineering <sup>o</sup>
Reclaimed Water Development Project <sup>o</sup>	Must apply to Taiwan Power Company for high-voltage electricity mechanical equipment. <sup>o</sup>		Design_ construction supervision <sup>o</sup>	Electrical engineering <sup>o</sup>
Water treatment facilities construction for Reclaimed Water Development Project <sup>o</sup>	Maximum daily water treatment quantity reaches 5,000 cubic meters or more. <sup>o</sup>	Water treatment functions and equipment <sup>o</sup>	Design_ construction supervision <sup>o</sup>	Environmental engineering <sup>o</sup>
		Civil and water construction <sup>o</sup>	Design_ construction supervision <sup>o</sup>	Environmental engineering_ civil engineering_ hydraulic engineering <sup>o</sup>
	Must apply to Taiwan Power Company for high-voltage electricity mechanical equipment. <sup>o</sup>		Design_ construction supervision <sup>o</sup>	Electrical engineering <sup>o</sup>
Water supply facilities construction for	Maximum daily water supply quantity reaches 2,000 cubic meters or more. <sup>o</sup>		Design_ construction supervision <sup>o</sup>	Hydraulic engineering_ civil engineering <sup>o</sup>
Reclaimed Water Development Project <sup>o</sup>	Must apply to Taiwan Power Company for high-voltage electricity mechanical equipment. <sup>o</sup>		Design_ construction supervision <sup>o</sup>	Electrical engineering <sup>o</sup>

