

**Notification of the Ministry of Industry**

**Subject: Descriptions of Factory Types and Sizes, Procedure for the Control of Discharges of Wastes, Pollutants, or Any Substances that Cause Adverse Effects on the Environment, Qualifications of Supervisors and Operators, and Criteria for Registration of the Supervisors of Pollution Prevention Systems (No.2) B.E. 2554 (2011)**

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It deems appropriate to amend the Notification of the Ministry of Industry regarding Descriptions of Factory Types and Sizes, Procedure for the Control of Discharges of Wastes, Pollutants, or Any Substances that Cause Adverse Effects on the Environment, Qualifications of Supervisors and Operators, and Criteria for Registration of the Supervisors of Pollution Prevention Systems B.E. 2545 (2002). By the virtue of Article 10 of the Ministerial Regulation No.2 (B.E. 2535) under the Factory Act B.E. 2535 (1992) which contains some provisions concerning the limitation of the person's rights and freedoms that can be done by the provisions of Section 29 combined with Section 33, Section 41, and Section 43 of the Constitution of the Kingdom of Thailand, the Minister of Industry hereby issues the notification as follows:

Article 1 This Notification is entitled as "Notification of the Ministry of Industry regarding Descriptions of Factory Types and Sizes, Procedure for the Control of Discharges of Wastes, Pollutants, or Any Substances that Cause Adverse Effects on the Environment, Qualifications of Supervisors and Operators, and Criteria for Registration of the Supervisors of Pollution Prevention Systems (No.2) B.E. 2554 (2011)"

Article 2 The definitions of "Environmental personnel", "Supervisor", "Consultant" and "Operator" prescribed in Article 1 of the Notification of the Ministry of Industry regarding Descriptions of Factory Types and Sizes, Procedure for the Control of Discharges of Wastes, Pollutants, or Any Substances that Cause Adverse Effects on the Environment, Qualifications of Supervisors and Operators, and Criteria for Registration of the Supervisors of Pollution Prevention Systems B.E. 2545 (2002) shall be repealed and replaced by the following prescription:

"Environmental personnel" means a supervisor and an operator of the pollution prevention system.

"Supervisor" means a person who is registered to carry out inspection, control, supervision, operation and maintenance of water, air and industrial waste pollution treatment systems or of machines, equipment, tools or appliances installed as for pollution prevention system in a factory and this shall include a consultant and an environmental manager.

"Operator" means a person who is notified to carry out inspection, control, supervision and maintenance of the water, air and industrial waste pollution treatment systems or tool, appliance or any equipment installed for control, treatment or disposal of any other pollutants that is installed as for pollution prevention system in a factory.

"Consultant" means a service providing contractor registered as Water Pollution Supervisor, Air Pollution Supervisor, or Industrial Waste Management Supervisor as the case may be.

Article 3 The description of “License”, “Permission”, and “Grantor” prescribed in Article 1 of the Notification of the Ministry of Industry regarding Descriptions of Factory Types and Sizes, Procedure for the Control of Discharges of Wastes, Pollutants, or Any Substances that Cause Adverse Effects on the Environment, Qualifications of Supervisors and Operators, and Criteria for Registration of the Supervisors of Pollution Prevention Systems B.E. 2545 (2002) shall be repealed.

Article 4 The following descriptions shall be added following the description of “Training” in Article 1 of the Notification of the Ministry of Industry regarding Descriptions of Factory Types and Sizes, Procedure for the Control of Discharges of Wastes, Pollutants, or Any Substances that Cause Adverse Effects on the Environment, Qualifications of Supervisors and Operators, and Criteria for Registration of the Supervisors of Pollution Prevention Systems B.E. 2545 (2002):

*“Registration certificate” means a certificate issued by Department of Industrial Works as evidence after a registration of water pollution supervisor, air pollution supervisor, or industrial waste pollution supervisor, as the case may be.*

*“Registration” means a registration of water pollution supervisor, air pollution supervisor, or industrial waste pollution supervisor, as the case may be.*

*“Registration officer” means the Director General of Department of Industrial Works or others assigned by the Director General.*

*“Register” means a register of water pollution supervisor, air pollution supervisor, or industrial waste pollution supervisor, as the case may be.*

*“Letter of acknowledgment” means a letter issued by Department of Industrial Works as evidence for acknowledgment of environmental personnel in a factory.*

*“Acknowledgment receiver” means the Director General of Department of Industrial Works or others assigned by the Director General”*

Article 5 The prescription in Article 2 of Section 1 of the Notification of the Ministry of Industry regarding Descriptions of Factory Types and Sizes, Procedure for the Control of Discharges of Wastes, Pollutants, or Any Substances that Cause Adverse Effects on the Environment, Qualifications of Supervisors and Operators, and Criteria for Registration of the Supervisors of Pollution Prevention Systems B.E. 2545 (2002) shall be repealed and replaced by the following prescription:

*“Article 2 Environmental personnel means:*

- 2.1 Supervisor; which is classified as:*
  - 2.1.1 Environmental Manager*
  - 2.1.2 Water Pollution Supervisor or consultant*
  - 2.1.3 Air Pollution Supervisor or consultant*
  - 2.1.4 Industrial Waste Management Supervisor or consultant*

- 2.2 *Operator; which is classified as:*  
 2.2.1 *Water Pollution Operator*  
 2.2.2 *Air Pollution Operator*  
 2.2.3 *Industrial Waste Management Operator”*

Article 6 The prescription in Article 5 of Section 4 of the Notification of the Ministry of Industry regarding Descriptions of Factory Types and Sizes, Procedure for the Control of Discharges of Wastes, Pollutants, or Any Substances that Cause Adverse Effects on the Environment, Qualifications of Supervisors and Operators, and Criteria for Registration of the Supervisors of Pollution Prevention Systems B.E. 2545 (2002) shall be repealed and replaced by the following prescription:

“Article 5 The following factories must have environmental personnel in a factory as required.

<i>No.</i>	<i>Factory Types and Sizes</i>	<i>Classification of Environmental Personnel</i>
<i>1</i>	<p><i>Factories having an organic-wastewater:</i></p> <p><i>Factories having 500 cubic meters per day or more of wastewater (excluding cooling water) or having BOD load of influent 100 kilograms per day or more</i></p>	<ul style="list-style-type: none"> <li>- <i>Environmental Manager</i></li> <li>- <i>Water Pollution Supervisor or consultant</i></li> <li>- <i>Water Pollution Operator</i></li> </ul>
<i>2</i>	<p><i>Factories using the following substances or its compounds in production processes and having 50 cubic meters per day or more of wastewater.</i></p> <p><i>2.1 Zinc</i></p> <p><i>2.2 Cadmium</i></p> <p><i>2.3 Cyanide</i></p> <p><i>2.4 Organic Phosphorus Compounds</i></p> <p><i>2.5 Lead</i></p> <p><i>2.6 Copper</i></p> <p><i>2.7 Barium</i></p> <p><i>2.8 Selenium</i></p> <p><i>2.9 Nickel</i></p> <p><i>2.10 Manganese</i></p> <p><i>2.11 Hexavalent Chromium</i></p> <p><i>2.12 Arsenic and its Compounds</i></p> <p><i>2.13 Mercury and its Compounds</i></p>	<ul style="list-style-type: none"> <li>- <i>Environmental Manager</i></li> <li>- <i>Water Pollution Supervisor or consultant</i></li> <li>- <i>Water Pollution Operator</i></li> </ul> <p><u><i>Note</i></u> <i>A metal plating factory shall have Air Pollution Supervisor and Operator, Industrial Waste Pollution Supervisor and Operator or consultant in a factory.</i></p>

3	<p><i>Factory engaging in the following activities:</i></p> <p><i>3.1 Production of raw sugar or white sugar or refined sugar, all sizes</i></p> <p><i>3.2 Production of glucose, dextrose, fructose, or other similar products with a production capacity of 20 tons/day or higher</i></p>	<ul style="list-style-type: none"> <li>- <i>Environmental Manager</i></li> <li>- <i>Water Pollution Supervisor or consultant</i></li> <li>- <i>Air Pollution Supervisor or consultant</i></li> <li>- <i>Water Pollution Operator</i></li> <li>- <i>Air Pollution Operator</i></li> </ul>
4	<p><i>Factory engaging in the following activities:</i></p> <p><i>4.1 Production of liquor, alcohol with a production capacity of 40,000 liter/month or higher (at 24% alcohol)</i></p> <p><i>4.2 Production of wine, with a capacity of 600,000 liter/month</i></p> <p><i>4.3 Production of beer, with a capacity of 600,000 liter/month</i></p>	<ul style="list-style-type: none"> <li>- <i>Environmental Manager</i></li> <li>- <i>Water Pollution Supervisor or consultant</i></li> <li>- <i>Air Pollution Supervisor or consultant</i></li> <li>- <i>Water Pollution Operator</i></li> <li>- <i>Air Pollution Operator</i></li> </ul>
5	<p><i>Pulp production from wood or other materials, having capacity of 50 tons/day or higher</i></p>	<ul style="list-style-type: none"> <li>- <i>Environmental Manager</i></li> <li>- <i>Water Pollution Supervisor or consultant</i></li> <li>- <i>Air Pollution Supervisor or consultant</i></li> <li>- <i>Industrial Waste Management Supervisor</i></li> <li>- <i>Water Pollution Operator</i></li> <li>- <i>Air Pollution Operator</i></li> <li>- <i>Industrial Waste Management Operator</i></li> </ul>
6	<p><i>Petrochemical factory having chemical processes and having capacity from 100 tons/day</i></p>	<ul style="list-style-type: none"> <li>- <i>Environmental Manager</i></li> <li>- <i>Water Pollution Supervisor or consultant</i></li> <li>- <i>Air Pollution Supervisor or consultant</i></li> <li>- <i>Industrial Waste Management Supervisor or consultant</i></li> <li>- <i>Water Pollution Operator</i></li> <li>- <i>Air Pollution Operator</i></li> <li>- <i>Industrial Waste Management Operator</i></li> </ul>
7	<p><i>Chlor-Alkaline Industry using Sodium Chloride (NaCl) as raw material for a production of Sodium Carbonate (Na<sub>2</sub>CO<sub>3</sub>), Sodium Hydroxide (NaOH), Hydrochloric Acid (HCl), Chlorine (Cl<sub>2</sub>), Sodium Hypochlorite (NaOCl) and Bleaching powders with a production capacity of each or combined product(s) of 100 tons/day or more</i></p>	<ul style="list-style-type: none"> <li>- <i>Environmental Manager</i></li> <li>- <i>Water Pollution Supervisor or consultant</i></li> <li>- <i>Air Pollution Supervisor or consultant</i></li> <li>- <i>Industrial Waste Management Supervisor or consultant</i></li> <li>- <i>Water Pollution Operator</i></li> <li>- <i>Air Pollution Operator</i></li> <li>- <i>Industrial Waste Management Operator</i></li> </ul>

8	<i>Factory producing active ingredients or pesticide, insecticide by chemical processes of all sizes or chemical fertilizer using chemical processes, all sizes</i>	<ul style="list-style-type: none"> <li>- Environmental Manager</li> <li>- Water Pollution Supervisor or consultant</li> <li>- Air Pollution Supervisor or consultant</li> <li>- Industrial Waste Management Supervisor or consultant</li> <li>- Water Pollution Operator</li> <li>- Air Pollution Operator</li> <li>- Industrial Waste Management Operator</li> </ul>
9	<i>Production of rubber, synthetic resin, elastomer rubber, plastic, or synthetic fiber which is not optical fiber having capacity from 100 tons/day</i>	<ul style="list-style-type: none"> <li>- Environmental Manager</li> <li>- Water Pollution Supervisor or consultant</li> <li>- Air Pollution Supervisor or consultant</li> <li>- Industrial Waste Management Supervisor or consultant</li> <li>- Water Pollution Operator</li> <li>- Air Pollution Operator</li> <li>- Industrial Waste Management Operator</li> </ul>
10	<i>Petroleum refinery, all sizes</i>	<ul style="list-style-type: none"> <li>- Environmental Manager</li> <li>- Water Pollution Supervisor or consultant</li> <li>- Air Pollution Supervisor or consultant</li> <li>- Industrial Waste Management Supervisor or consultant</li> <li>- Water Pollution Operator</li> <li>- Air Pollution Operator</li> <li>- Industrial Waste Management Operator</li> </ul>
11	<i>Cement factory, all sizes</i>	<ul style="list-style-type: none"> <li>- Environmental Manager</li> <li>- Air Pollution Supervisor or consultant</li> <li>- Air Pollution Operator</li> </ul>
12	<i>Iron and steel factory, capacity from 100 tons/day</i>	<ul style="list-style-type: none"> <li>- Environmental Manager</li> <li>- Water Pollution Supervisor or consultant</li> <li>- Air Pollution Supervisor or consultant</li> <li>- Industrial Waste Management Supervisor or consultant</li> <li>- Water Pollution Operator</li> <li>- Air Pollution Operator</li> <li>- Industrial Waste Management Operator</li> </ul> <p><i>Note: If there is not wastewater generated from the factory, it is not required to have a Water Pollution Supervisor, consultant or operator.</i></p>
13	<i>Non-ferrous smelting factory, having capacity from 50 tons/day</i>	<ul style="list-style-type: none"> <li>- Environmental Manager</li> <li>- Water Pollution Supervisor or consultant</li> <li>- Air Pollution Supervisor or consultant</li> <li>- Industrial Waste Management Supervisor or consultant</li> <li>- Water Pollution Operator</li> <li>- Air Pollution Operator</li> <li>- Industrial Waste Management Operator</li> </ul> <p><i>Note: If there is not wastewater generated from the factory, it is not required to have a Water Pollution Supervisor, consultant or operator.</i></p>

14	<i>Thermal Power Plant with a capacity from 10 MW</i>	<ul style="list-style-type: none"> <li>- Environmental Manager</li> <li>- Air Pollution Supervisor or consultant</li> <li>- Air Pollution Operator</li> </ul> <p><i>Note: In case of a coal-fired power plant, it is required to have Industrial Waste Management Supervisor, consultant or operator.</i></p>
15	<i>Natural gas separation or processing plant, all sizes</i>	<ul style="list-style-type: none"> <li>- Environmental Manager</li> <li>- Air Pollution Supervisor or consultant</li> <li>- Industrial Waste Management Supervisor or consultant</li> <li>- Air Pollution Operator</li> <li>- Industrial Waste Management Operator</li> </ul>
16	<i>Central waste treatment factory as follows:</i>	
	<i>16.1 Central wastewater treatment system, all sizes</i>	<ul style="list-style-type: none"> <li>- Environmental Manager</li> <li>- Water Pollution Supervisor or consultant</li> <li>- Industrial Waste Management Supervisor or consultant</li> <li>- Water Pollution Operator</li> <li>- Industrial Waste Management Operator</li> </ul>
	<i>16.2 Incinerator according to the factory law, all sizes</i>	<ul style="list-style-type: none"> <li>- Environmental Manager</li> <li>- Air Pollution Supervisor or consultant</li> <li>- Industrial Waste Management Supervisor or consultant</li> <li>- Air Pollution Operator</li> <li>- Industrial Waste Management Operator</li> </ul>
	<i>16.3 Hazardous waste treatment, all sizes</i>	<ul style="list-style-type: none"> <li>- Environmental Manager</li> <li>- Industrial Waste Management Supervisor or consultant</li> <li>- Industrial Waste Management Operator</li> </ul>
17	<i>Waste separation or landfill</i>	
	<i>17.1 Hazardous waste separation, all sizes</i>	<ul style="list-style-type: none"> <li>- Environmental Manager</li> <li>- Industrial Waste Management Supervisor or consultant</li> <li>- Industrial Waste Management Operator</li> </ul>
	<i>17.2 Landfill, all sizes</i>	<ul style="list-style-type: none"> <li>- Environmental Manager</li> <li>- Water Pollution Supervisor or consultant</li> <li>- Industrial Waste Management Supervisor or consultant</li> <li>- Water Pollution Operator</li> <li>- Industrial Waste Management Operator</li> </ul>

18	<i>Recycling of industrial waste or industrial hazardous waste as raw materials or new products, all sizes.</i>	<ul style="list-style-type: none"> <li>- <i>Environmental Manager</i></li> <li>- <i>Industrial Waste Management Supervisor or consultant</i></li> <li>- <i>Industrial Waste Management Operator</i></li> </ul> <p><i>Note: In case of a recycling of lead from used battery, it is required to have Water Pollution Supervisor or consultant, Air Pollution Supervisor or consultant, and Water Pollution Operator and Air Pollution Operator.</i></p>
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Article 7 The prescription in Section 5 of the Notification of the Ministry of Industry regarding Descriptions of Factory Types and Sizes, Procedure for the Control of Discharges of Wastes, Pollutants, or Any Substances that Cause Adverse Effects on the Environment, Qualifications of Supervisors and Operators, and Criteria for Registration of the Supervisors of Pollution Prevention Systems B.E. 2545 (2002) shall be repealed and replaced with the following prescription:

*“Section 5  
Description of Duties and Responsibilities of Environmental Personnel  
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*Article 6. Environmental personnel shall have duties as follows:*

*6.1 Environmental manager:*

- 6.1.1 Supervision of environmental management, pollution treatment and pollution prevention in a factory.*
- 6.1.2 Supervision of environmental management in a factory to be complied with the requirements of law.*
- 6.1.3 Taking into consideration to increase efficiency of pollution management and treatment.*
- 6.1.4 Prepare emergency response plan to prevent pollutants from spreading to the environment. In case of emergency, a prompt action shall be taken to solve the problems.*
- 6.1.5 To check and endorse pollutants analysis report*

*6.2 Water Pollution Supervisor*

*6.2.1 To inspect and evaluate the efficiency of pollution prevention system including wastewater treatment system and sludge treatment system.*

*6.2.2 To supervise and improve the efficiency of pollution prevention system, including wastewater treatment system and sludge treatment system, and to manage a discharge of wastewater in complying with required standards.*

*6.2.3 To prevent any discharge of untreated wastewater through a by-pass channel.*

*6.2.4 Recommend the efficient ways to improve pollution prevention system to Environmental Manager.*

6.2.5 Take action in the emergency incidents according to an emergency response plan of a factory and report it to Environmental Manager for further improvement.

6.2.6 To prepare pollutant analysis reports in accordance with the criteria and procedure as defined by the Department of Industrial Works, which must be conducted by an official or private laboratory registered by the Department of Industrial Works. This report must be kept at a factory and be available for the inspection of the Department of Industrial Works' officers.

6.2.7 Report results of inspection, control and supervision of pollution prevention system to Environmental Manager.

### 6.3 Air Pollution Supervisor

6.3.1 To inspect and evaluate the efficiency of pollution prevention system including air pollution treatment system.

6.3.2 To supervise and improve the efficiency of pollution prevention system, including air pollution treatment system, and to manage emission discharge in complying with required standards.

6.3.3 Recommend the efficient ways to improve pollution prevention system to Environmental Manager.

6.3.4 Take action in the emergency incidents according to an emergency response plan of a factory and report it to Environmental Manager for further improvement.

6.3.5 To prepare pollutant analysis reports in accordance with the criteria and procedure as defined by the Department of Industrial Works, which must be conducted by an official or private laboratory registered by the Department of Industrial Works. This report must be kept at a factory and be available for the inspection of the Department of Industrial Works' officers.

6.3.6 Report results of inspection, control and supervision of pollution prevention system to Environmental Manager.

### 6.4 Industrial Waste Management Supervisor who is working at a waste generating factory

6.4.1 Identify and classify industrial waste generated in a factory to be non-hazardous and hazardous waste.

6.4.2 Control, supervise and inspect industrial non-hazardous and hazardous waste separation and storage.

6.4.3 Inspect a storage place and container to be suitable with type of industrial waste and ensure a proper labeling to identify type of waste.

6.4.4 Inspect whether the industrial waste is transferred to a proper treatment facility in accordance with a permit received from Department of Industrial Works. Inspect a manifest of waste transportation whether it is correctly prepared as required by law. Inspect a notification of details of amount, characteristics, qualifications and storage place of industrial waste, as well as treatment and transportation method.

6.4.5 Monitor a contracted waste processor on how the industrial waste is treated.

6.4.6 Recommend the efficient industrial waste management plan to decrease waste generation or to increase waste management to Environmental Manager.

6.4.7 Take action in the emergency incidents according to an emergency response plan of a factory and report it to Environmental Manager for further improvement.

6.4.8 Report results of inspection, control and supervision of pollution prevention system to Environmental Manager.

6.5 Industrial Waste Management Supervisor who is working at a waste processing factory

6.5.1 Check characteristics of wastes received in a factory to be in compliance with its factory operation permit

6.5.2 Control, supervise and inspect a proper storage of industrial waste in accordance with a technical standard method and storage area and must not cause any nuisance or contamination to the environment.

6.5.3 Control and supervise a treatment or disposal of industrial waste to comply with technical standard method and its own factory permit and shall not cause any pollution problems.

6.5.4 Take action in the emergency incidents according to an emergency response plan of a factory and report it to Environmental Manager for further improvement.

6.5.5 Report results of inspection, control and supervision of pollution prevention system to Environmental Manager.

6.6 Consultant shall have duties and responsibilities as same as Water Pollution Supervisor, Air Pollution Supervisor or Industrial Waste Management Supervisor prescribed in 6.2, 6.3, 6.4, and 6.5 as the case may be. However, servicing shall comply with criteria and method prescribed by Department of Industrial Works.

6.7 Water Pollution Operator and Air Pollution Operator

6.7.1 Work at the machine of pollution prevention system during the operation time

6.7.2 Inspect the machine to be efficiently operated

6.7.3 Obey the order of Water Pollution Supervisor or Air Pollution Supervisor, as the case may be, in preventing pollutions from spreading out to the environment.

6.7.4 Take action in the emergency incidents according to an emergency response plan of a factory and immediately report it to Water Pollution Supervisor or Air Pollution Supervisor, as the case may be, for further improvement.

6.7.5 Report results of inspection, control and supervision of pollution prevention system to Water Pollution Supervisor or Air Pollution Supervisor, as the case may be.

6.8 Industrial Waste Management Operator

6.8.1 Sorting and keeping industrial hazardous and non-hazardous waste in a technically appropriate method.

6.8.2 Taking action on management of industrial waste of a factory in a technically appropriate method and not causing any nuisance or contamination to the environment.

6.8.3 Obey the order of Industrial Waste Management Supervisor in preventing pollutions from spreading out to the environment.

*6.8.4 Take action in the emergency incidents according to an emergency response plan of a factory and immediately report it to Industrial Waste Management Supervisor for further improvement.*

*6.8.5 Report results of inspection, control and supervision of pollution prevention system to Industrial Waste Management Supervisor for further improvement”*

Article 8      The prescription in Article 7 of Section 6 of the Notification of the Ministry of Industry regarding Descriptions of Factory Types and Sizes, Procedure for the Control of Discharges of Wastes, Pollutants, or Any Substances that Cause Adverse Effects on the Environment, Qualifications of Supervisors and Operators, and Criteria for Registration of the Supervisors of Pollution Prevention Systems B.E. 2545 (2002) shall be repealed and replaced with the following prescription:

*“Article 7 A factory operation licensee mentioned in Article 5 of Section 2, who is required to provide Environmental Personnel having qualifications as mentioned in Article 2 of Section 1 in a factory, shall have the following duties:*

*7.1 Notifying of Environmental Personnel in a factory*

*Notifying procedure and acknowledgment of notification shall comply with criteria and procedure prescribed by Department of Industrial Works.*

*7.2 Taking the advice of Environmental Manager for any actions regarding environmental management of a factory to prevent a spread of pollutions to the environment.*

*7.3 When it is found that a registration certificate, as mentioned in Section 9, of Water Pollution Supervisor, Air Pollution Supervisor or Industrial Waste Management Supervisor is revoked, a factory operation licensee shall replace a revoked Supervisor with a new one within 90 days since a date of revoke. During a vacant period, Environmental Manager shall work as Water Pollution Supervisor, Air Pollution Supervisor or Industrial Waste Management Supervisor, as the case may be.*

*7.4 If Environmental Manager is not capable, under any circumstance, to work as Environmental Manager of a factory, a factory operation licensee shall make a written notification to an Acknowledgement receiver within 15 days since a date of incapability. A factory operation licensee shall have a duty to fill in this position within 90 days since a date of vacancy. During the vacant period, a factory operation licensee shall work as Environmental Manager of a factory.*

*7.5 If Water Pollution Supervisor, Air Pollution Supervisor, Industrial Waste Management Supervisor, or Consultant is not capable, under any circumstance, to work as Water Pollution Supervisor, Air Pollution Supervisor, Industrial Waste Management Supervisor, or Consultant of a factory; a factory operation licensee shall make a written notification to an Acknowledgement receiver within 15 days since a date of incapability. A factory operation licensee shall have a duty to fill in this position within 90 days since a date of vacancy. During the vacant period, Environmental Manager shall work as Water Pollution Supervisor, Air Pollution Supervisor, Industrial Waste Management Supervisor, or Consultant of a factory, as the case may be.*

*7.6 If Water Pollution Operator, Air Pollution Operator, Industrial Waste Management Operator is not capable, under any circumstance, to work as Water Pollution Operator, Air Pollution Operator, Industrial Waste Management Operator of a factory; a factory operation licensee shall make a written notification to an Acknowledgement receiver within 15 days since a date of incapability. A factory operation licensee shall have a duty to fill in this position within 90 days since a date of vacancy. During the vacant period, Water Pollution Supervisor, Air Pollution Supervisor or Industrial Waste Management Supervisor of a factory shall work as Operator as the case may be.”*

Article 9 The prescription in Article 9 of Section 7 of the Notification of the Ministry of Industry regarding Descriptions of Factory Types and Sizes, Procedure for the Control of Discharges of Wastes, Pollutants, or Any Substances that Cause Adverse Effects on the Environment, Qualifications of Supervisors and Operators, and Criteria for Registration of the Supervisors of Pollution Prevention Systems B.E. 2545 (2002) shall be repealed and replaced with the following prescription:

*“Article 9 After registration, a Registration officer shall issue a Registration Certificate as an evidence. The certificate shall be effective for 3 years and is renewable.”*

Article 10 The prescription in Section 8 of the Notification of the Ministry of Industry regarding Descriptions of Factory Types and Sizes, Procedure for the Control of Discharges of Wastes, Pollutants, or Any Substances that Cause Adverse Effects on the Environment, Qualifications of Supervisors and Operators, and Criteria for Registration of the Supervisors of Pollution Prevention Systems B.E. 2545 (2002) shall be repealed and replaced with the following prescription:

*“Section 8  
Renewal of Registration Certificate*

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*Article 10 Renewal of Registration certificate shall be in line with criteria and procedure prescribed by Department of Industrial Works.*

*Article 11 Registration officer may not approve a renewal of registration certificate if it is found that performances according to Article 6.2, 6.3, 6.4 and 6.5 of Section 5 are inefficient.”*

Article 11 The prescription in Section 9 of the Notification of the Ministry of Industry regarding Descriptions of Factory Types and Sizes, Procedure for the Control of Discharges of Wastes, Pollutants, or Any Substances that Cause Adverse Effects on the Environment, Qualifications of Supervisors and Operators, and Criteria for Registration of the Supervisors of Pollution Prevention Systems B.E. 2545 (2002) shall be repealed and replaced with the following prescription:

*“Section 9  
Withdrawal of Registration Certificate*

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*Article 12 When it is found that Water Pollution Supervisor, Air Pollution Supervisor or Industrial Waste Management Supervisor is failed to perform duties mentioned in Article 6.2, 6.3, 6.4, 6.5 and 6.6 of Section 5 or submits a false report or violates this Notification; Registration officer may withdraw a Registration certificate. A person whose registration certificate is withdrawn can apply for a registration again after 3 years since a date of withdrawal.”*

Article 12 The prescription in Section 10 of the Notification of the Ministry of Industry regarding Descriptions of Factory Types and Sizes, Procedure for the Control of Discharges of Wastes, Pollutants, or Any Substances that Cause Adverse Effects on the Environment, Qualifications of Supervisors and Operators, and Criteria for Registration of the Supervisors of Pollution Prevention Systems B.E. 2545 (2002) shall be repealed and replaced with the following prescription:

*“Section 10  
Registration Certificate and Application Form  
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*Article 13 Application form for registration, registration certificate, application form for renewal of registration certificate shall be in compliance with Notification of Department of Industrial Works.”*

Article 14 Water Pollution Supervisor, Air Pollution Supervisor or Industrial Waste Management Supervisor, who has registered with Department of Industrial Works in prior to the effectiveness of this Notification, shall use that registration certificate until it is expired and that certificate shall be regarded as Registration certificate as defined by this Notification. After expiration, a renewal of certificate shall be in compliance with this Notification.

Article 15 Any person who has received a permit to have Environmental Personnel in a factory before the effectiveness of this Notification shall use that permit until it is expired and it shall be regarded as a notification of environmental personnel according to this Notification. After expiration, renewal of a permit shall be in compliance with this Notification.

Article 16 A factory that is required to have Environmental Personnel or additional Environmental Personnel according to this Notification shall complete the requirement within 90 days after the effective date of this Notification.

Announced on 28<sup>th</sup> December B.E. 2554  
Wannarat Charnnukul  
Minister of Industry