



Occupational Health (Thailand) / Print Format Checklist

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Instructions:

- The print format checklist below provides an integrated list of questions with the audit guidance available on each question, where applicable.
- Print this Webpage to help conduct the field verification requirements of your audit.** Record your answers, evaluation notes and audit findings in the spaces provided. **Input your findings** in the on-line Power checklist page following your field audit!
- This checklist contains **63 questions** and reflects underlying laws/regulations/standards as of **June 2011**.

Tip: Select 'Landscape' Orientation (under Print Properties) when printing this page!

Organization:		Site:	
Dept		Site Detail:	
Audit Type:		Audit date(s):	
Auditor(s):			

Findings recorded in on-line Power audit checklist on/by:	
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[1.0 Medical Surveillance](#)
 [2.0 First Aid Provisions](#)
 [3.0 Accident/Illness Investigation, Record keeping & Reporting](#)
 [4.0 General Workplace Requirements](#)
 [5.0 Manual Handling of Loads / Back Injury Prevention](#)
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 [7.0 Ionizing & Non-ionizing Radiation](#)

Question	Guide Note	Answer	Evaluation Notes/Findings
1.0 Medical Surveillance Top			
<p>1.1 If the facility requires its workers to engage in work which may be detrimental to their health, they have undergone a medical examination prior to starting such work, and thereafter at least once every year. (Regulatory Citations: -Labor Protection Act B.E. 2541 (1998), section 107- Notification of Ministry of Labor of B.E. 2552 (2009) Setting Forth the Requirements of Providing a Medical Check-up Arrangement for Employees Working with the Prescribed Chemical Substances- Ministerial Regulation on the Procedures for Medical Examination for the Workers and Submission of the Examination Report to the Labor Inspection Officer of 2004 (B.E. 2547), clause 3)</p>	<p>Regulatory Citations: -Labor Protection Act B.E. 2541 (1998), section 107 -Notification of Ministry of Labor of B.E. 2552 (2009) Setting Forth the Requirements of Providing a Medical Check-up Arrangement for Employees Working with the Prescribed Chemical Substances -Ministerial Regulation on the Procedures for Medical Examination for the Workers and Submission of the Examination Report to the Labor Inspection Officer of 2004 (B.E. 2547), clause 3</p> <p>NOTE: Work which may be detrimental to health is defined as work relating to dangerous chemicals (listed under the Notification of Ministry of Labor of 2009 (B.E. 2552)), toxic substances, radiation and other work-related environments that may be detrimental to health such as heat, cold, vibration, pressure, light, noise as prescribed by the Minister of Labor.</p> <p>NOTE: Employees are to have an annual physical check-up with a first-class physician. NOTE: The facility that exposes its employees to the hazardous chemicals listed under the Notification of Ministry of Labor of 2009 must arrange for medical examination. The following hazardous chemicals are listed under this Notification: 1. Organic solvents: glycol, glutaraldehyde, chloroform, ketone and methyl ethyl ketone, naphthas, benzidine and benzidine salts, benzene and benzene derivatives such as xylene, toluene, styrene, benzoquinone, bis (chloromethyl) ether), propane, formaldehyde, phenochlorinel, methanol, methylene chloride, methyl isocyanate, trichloro ethylene, acrylonitrile, acetone, acetonitrile, ether, ethyl acetate, ethylene dichloride, isopropyl alcohol, hexane and hexane derivatives, hydroquinone. 2. hazardous gases: chlorine or chlorine compounds, carbon monoxide, sulfur dioxide, phosgene, fluorine or fluorine compounds, vinyl chloride, oxides of nitrogen, ethylene oxide, ammonia, hydrogen sulfide, hydrogen cyanide or hydrogen cyanide compounds. 3. particles and metal particles: cadmium or cadmium compounds, cobalt or cobalt compounds, chromium or chromium compounds, silver, selenium or selenium compounds, tin or tin compounds, lead or lead compounds, copper or copper compounds, thallium or thallium compounds, nickel or nickel compounds, beryllium or beryllium compounds, mercury or mercury compounds, antimony or antimony compounds, manganese or manganese compounds, vanadium or vanadium compounds, zinc or zinc compounds, arsenic or arsenic compounds, aluminum or aluminum compounds, osmium or osmium compounds. 4. Acids: sulphuric acids, mineral acids, nitric acids. 5. Pesticides: organophosphates, carbamate. 6. Others: carbon disulfide, silica, coal, mineral oils, coal-tar pitches, shale oils, cotton flax and hemp dust, wood dust, phosphorus or phosphorus compounds, glass fibers, dioxin, asbestos.</p>	<p><input type="radio"/> Not Applicable</p> <p><input type="radio"/> Compliant</p> <p><input type="radio"/> Non-Compliant</p>	
<p>1.2 The facility provides immediate treatment for any employee working with hazardous chemicals who is found to be sick after a physical examination arranged by the employers. (Regulatory Citations: -</p>	<p>Regulatory Citations: -Ministerial Regulation on the Procedures for Medical Examination for the Workers and Submission of the Examination Report to the Labor Inspection Officer of 2004 (B.E. 2547), clause 9</p> <p>NOTE: A report of medical examination must be submitted to the</p>	<p><input type="radio"/> Not Applicable</p> <p><input type="radio"/> Compliant</p> <p><input type="radio"/> Non-Compliant</p>	

<p>Ministerial Regulation on the Procedures for Medical Examination for the Workers and Submission of the Examination Report to the Labor Inspection Officer of 2004 (B.E. 2547), clause 9</p>	<p>labor inspection officer.</p>		
<p>1.3 The facility keeps the results of each physical examination available at the facility for inspection by a competent official. (Regulatory Citations: - Notification of the Ministry of Interior of 22 August 1991 issued under the Notification of Revolutionary Party no. 103 on Working Safety with Regard to dangerous Chemicals, clause 20)</p>	<p>Regulatory Citations: -Notification of the Ministry of Interior of 22 August 1991 issued under the Notification of Revolutionary Party no. 103 on Working Safety with Regard to dangerous Chemicals, clause 20</p> <p>NOTE: The physical examination records must be kept in the work premises for at least two years after termination of employment.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>1.4 The employer provides each worker engaging in work which may be detrimental to his or her health with a personal health record (สมุดสุขภาพประจำตัว). (Regulatory Citations: - Ministerial Regulation on the Procedures for Medical Examination for the Workers and Submission of the Examination Report to the Labor Inspection Officer of 2004 (B.E. 2547), clause 6)</p>	<p>Regulatory Citations: -Ministerial Regulation on the Procedures for Medical Examination for the Workers and Submission of the Examination Report to the Labor Inspection Officer of 2004 (B.E. 2547), clause 6</p> <p>NOTE: The result of each medical examination must be recorded in the employee's personal health record. NOTE: Work which may be detrimental to health is defined as work relating to dangerous chemicals (listed under the Notification of Ministry of Labor of 2009 (B.E. 2552)), toxic substances, radiation and other work-related environments that may be detrimental to health such as heat, cold, vibration, pressure, light, and noise as prescribed by the Minister of Labor.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>2.0 First Aid Provisions Top</p>			
<p>2.1 Depending on the number of persons employed at the facility, the facility provides the necessary first aid equipment. (Regulatory Citations: -Ministerial Regulation on the Workplace Welfare of 2005, clause 2(1))</p>	<p>Regulatory Citations: -Ministerial Regulation on the Workplace Welfare of 2005, clause 2(1)</p> <p>NOTE: A workplace that has at least 10 employees must have the following first aid equipment: tourniquet; scissors; cotton, crepe bandage, absorbent gauze and adhesive plaster roll; medicine cup; eye fluid cup; eye drops; water cup; something used for applying medication; safety pins; tweezers; thermometer; iodine solution for wounds; 70% pure alcohol; medicine for burns; boric acid for cleaning eyes; ammonia; medicine for headaches and fever; opium, camphor; medicine for stomach aches (white-collared) ; medicine for stomach aches (red-collared) ; medicine for dysentery; bicarbonate soda; white Vaseline.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>2.2 If there are 200 or more employees working simultaneously, the facility provides an infirmary with one patient bed, adequate persons and essential pharmaceutical supplies for treatment. (Regulatory Citations: -Ministerial Regulation on the Workplace Welfare of 2005, clause 2)</p>	<p>Regulatory Citations: -Ministerial Regulation on the Workplace Welfare of 2005, clause 2</p> <p>NOTE: At least one nurse must be available during normal working hours. Also, at least one first class physician must be available to provide medical check-ups at least twice a week, which must be not less than 6 hours per week in total.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>2.3 If there are 1,000 or more employees working simultaneously, the facility provides an infirmary with two patient beds, adequate persons and adequate essential pharmaceutical supplies for treatment. (Regulatory Citations: - Ministerial Regulation on the Workplace Welfare of 2005, clause 2)</p>	<p>Regulatory Citations: -Ministerial Regulation on the Workplace Welfare of 2005, clause 2</p> <p>NOTE: At least two nurses must be available during working hours. Also, at least one first class physician in regular attendance must be available to provide medical check-ups at least 3 times a week, which must not be less than 12 hours per week in total, during normal working hours. A vehicle for immediately sending an injured or ill employee to a clinic, hospital or medical center must be provided.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>2.4 If the facility requires employees to work with dangerous chemicals, it has provided the necessary first aid equipment. (Regulatory Citations: -Notification of the Department of Labor Protection and Welfare on Required First-aid Medicines and Equipment for Workers Harmed by Dangerous Chemical Substances of 1992 (B.E. 2539))</p>	<p>Regulatory Citations: -Notification of the Department of Labor Protection and Welfare on Required First-aid Medicines and Equipment for Workers Harmed by Dangerous Chemical Substances of 1992 (B.E. 2539)</p> <p>NOTE: The facility must provide the following first aid equipment: tourniquet; scissors; cotton, crepe bandage, absorbent gauze and adhesive plaster roll; medicine cup; eye fluid cup; eye drops; water cup; something used for applying medication; safety pins; tweezers; thermometer; iodine solution for wounds; 70% pure alcohol; medicine for burns; boric acid for cleaning eyes; ammonia; medicine for headaches and fever; opium, camphor; soda bicarbonate; white Vaseline; oxygen tank; breathing</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	

apparatus.			
3.0 Accident/Illness Investigation, Record keeping & Reporting Top			
<p>3.1 If the facility is required to comply with the standard for management of occupational safety, health and environment of the workplace, it reports to the Director General of the Department of Labor Protection and Welfare if any employee is harmed, becomes ill or disappears. (Regulatory Citations: - Ministerial Regulation Prescribing the Standard for the Administration and Management of Occupational Safety, Health and Environment B.E. 2549 (2006), Clause 38)</p>	<p>Regulatory Citations: -Ministerial Regulation Prescribing the Standard for the Administration and Management of Occupational Safety, Health and Environment B.E. 2549 (2006), Clause 38</p> <p>NOTE: This is applicable to following businesses and establishments: 1) Mineral and rock mines, petroleum and petrochemical businesses; 2) Manufacturing, production, assembling, packaging, repairing, servicing, storage, improvement, decoration, elaboration, modification, conversion, damaging or destruction of objects or properties including ship building; generation, transformation and distribution of electricity or any other energy; 3) Construction, addition, installation, repairing, servicing, modification or removal of buildings, airports, railways, cart tracks, subways, ports, shipyards, piers, waterways, roads, dams, tunnels, bridges, drainages, pipes, telegraph, telephone, electricity, gas, waterworks or other constructions including the preparation or foundation work in anticipation of a construction; 4) Transportation of passengers or goods by land, sea and air including cargo loading and transfer; 5) Fuel or gas stations; 6) Hotels; 7) Department stores; 8) Medical institutions; 9) Financial institutions; 10) Physical testing facilities; 11) Entertainment, recreational and sports venues; 12) Chemical or biological laboratories; (13) Offices providing support to establish under (1) to (12); (14) Other businesses as announced by Ministry of Interior. NOTE: A report must be made to the Director General or an assignee as per the criteria and methods announced by the Director General within fifteen days from the day on which the employer learns or should have learned of the accident. NOTE: This Ministerial Regulation refers to the definition of "harm", "becomes ill", and "disappears" as defined under Workmen's Compensation Act.</p>	<p><input type="radio"/> Not Applicable</p> <p><input type="radio"/> Compliant</p> <p><input type="radio"/> Non-Compliant</p>	
<p>3.2 The facility has reported to the DIW any accident arising during its operation. (Regulatory Citations: - Factory Act of 2 April B.E. 2535 (1992), section 34)</p>	<p>Regulatory Citations: -Factory Act of 2 April B.E. 2535 (1992), section 34</p> <p>NOTE: The facility is required to report the accident to the DIW, if such accident has caused the following circumstances; 1) Death, illness or injury to the employees who after seventy-two hours cannot perform their original duties, in which case the employer must send a written notice to the DIW within three days from the date of death or after the seventy two hour delay has passed as the case may be; or 2) Termination of factory operations for more than seven days in which case the employer must send a written notice to the DIW within ten days from the date of the accident.</p>	<p><input type="radio"/> Not Applicable</p> <p><input type="radio"/> Compliant</p> <p><input type="radio"/> Non-Compliant</p>	
<p>3.3 The facility has notified the Social Security Officer (เจ้าหน้าที่ประกันสังคม) in writing of any work-related accident, or illness caused by work-related diseases for all workers insured under the Workmen's Compensation Act and has submitted a copy of the report to the Safety Inspection Officer (พนักงานตรวจความปลอดภัย) within 7 days from the date of an accident. (Regulatory Citations: -Workmen's Compensation Act, section 48-Notification of Ministry of Labor on the List of Work-Related Diseases of 2007-Occupational Health and Environmental Safety Act of 2011, section 34(3))</p>	<p>Regulatory Citations: -Workmen's Compensation Act, section 48 -Notification of Ministry of Labor on the List of Work-Related Diseases of 2007 -Occupational Health and Environmental Safety Act of 2011, section 34(3)</p> <p>NOTE: Under the Workmen's Compensation Act, the employer must notify the Social Security Office in writing within 15 days from the day that the employer becomes aware of or should be aware of any accidents, illness or disappearance of employees. (Workmen's Compensation Act B.E. 2537, Article 48). An employee covered by this Act is an employee who works for any employer in exchange for compensation, which means any workplace where employees are paid. "Work-related accident" covers any accident that causes bodily injury, mental disturbance or death, during job performance within the scope of the employer's instruction. "Work-related illness" is defined as an employee's illness or death caused by diseases, by working conditions, or contracted during the performance of their job. "Lost" is defined as the disappearance of an employee during the performance of his/her duties (work-related) when it is reasonable to believe that such an employee is dead. It also includes the disappearance of an employee during his/her travel to work via either ground, air or water transportation if it is reasonable to believe that such travel caused an accident leading to death of the employee. To fall into this definition of "lost," an employee must disappear for no less than 120 days since the occurrence of the accident leading to the death of that employee. As to the written notification, the employer must use the Form provided by the Social Security Office (Form Kor. Tor. 16). The content of Form Kor. Tor. 16 includes employer's name, address, number of employees, employee's name, address, date of employment, position, salary, brief description of accident/illness/loss, and circumstances of accident/illness. NOTE: The work-related diseases are listed under the Notification of Ministry of Labor on the list of work-related diseases of 15 August B.E. 2550. Under the Notification, the work-related diseases are divided into 8 groups based on the causes of diseases as follows: (1) injuries caused by chemical substances, (2) injuries caused by physical causes such as</p>	<p><input type="radio"/> Not Applicable</p> <p><input type="radio"/> Compliant</p> <p><input type="radio"/> Non-Compliant</p>	

	noise, air pressure, ultra violet radiation, (3) injuries caused by biological causes (e.g. infection), (4) injuries caused to respiratory system, (5) skin diseases, (6) muscle and bone diseases, (7) cancers, and (8) any other types of injuries caused by conditions of work or as a result of work. NOTE: A "Safety Inspection Officer" is the person appointed by Minister of Labor under the OH&ES Act.		
3.4 The facility has notified the Safety Inspection Officer of employee's death by phone or fax immediately, and submits written report on the cause and details of death to the Officer within 7 days from the date of employee's death. (Regulatory Citations: - Occupational Health and Environmental Safety Act of 2011, Sec.34)	Regulatory Citations: - Occupational Health and Environmental Safety Act of 2011, Sec.34 No further guidance has been provided.	<input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant	
4.0 General Workplace Requirements Top			
4.1 The facility provides sufficient working areas for each employee. (Regulatory Citations: - Ministerial Regulation no.2 (B.E. 2535) of 24 September 1992 issued under the Factory Act (B.E. 2535) on Criteria Relating to Location and Environment of the Factory, Nature and interior nature of the Factories, clause 5)	Regulatory Citations: - Ministerial Regulation no.2 (B.E. 2535) of 24 September 1992 issued under the Factory Act (B.E. 2535) on Criteria Relating to Location and Environment of the Factory, Nature and interior nature of the Factories, clause 5 NOTE: The facility must not be overcrowded and the working area for each person must be at least 3 m2. The height of the ceiling must be at least 3 m.	<input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant	
4.2 The facility has adequate and appropriate exits for emergency escapes, as well as stable and suitable staircases. (Regulatory Citations: - Ministerial Regulation no.2 (B.E. 2535) of 24 September 1992 issued under the Factory Act (B.E. 2535) on Criteria Relating to Location and Environment of the Factory, Nature and interior nature of the Factories, clause 5)	Regulatory Citations: - Ministerial Regulation no.2 (B.E. 2535) of 24 September 1992 issued under the Factory Act (B.E. 2535) on Criteria Relating to Location and Environment of the Factory, Nature and interior nature of the Factories, clause 5 No further guidance has been specified.	<input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant	
4.3 The facility has an appropriate workroom height as well as stable and non-slip floors. (Regulatory Citations: - Ministerial Regulation no.2 (B.E. 2535) of 24 September 1992 issued under the Factory Act (B.E. 2535) on Criteria Relating to Location and Environment of the Factory, Nature and interior nature of the Factories, clause 5)	Regulatory Citations: - Ministerial Regulation no.2 (B.E. 2535) of 24 September 1992 issued under the Factory Act (B.E. 2535) on Criteria Relating to Location and Environment of the Factory, Nature and interior nature of the Factories, clause 5 NOTE: The height of the ceiling must be at least 3 m.	<input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant	
4.4 The facility is kept clean at all times and bins are provided as appropriate. (Regulatory Citations: - Ministerial Regulation no.2 (B.E. 2535) of 24 September 1992 issued under the Factory Act (B.E. 2535) on Criteria Relating to Location and Environment of the Factory, Nature and interior nature of the Factories, clause 13)	Regulatory Citations: - Ministerial Regulation no.2 (B.E. 2535) of 24 September 1992 issued under the Factory Act (B.E. 2535) on Criteria Relating to Location and Environment of the Factory, Nature and interior nature of the Factories, clause 13 No further guidance has been specified.	<input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant	
4.5 No part of the facility is worn down or dirty to the extent that it may cause health problems. (Regulatory Citations: - Public Health Act of 29 March B.E. 2535 (1992), section 21)	Regulatory Citations: - Public Health Act of 29 March B.E. 2535 (1992), section 21 No further guidance has been specified.	<input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant	
4.6 The facility ensures that the fixed working hours for employees do not exceed 8 hours per day, or 48 hours per week in total with at least one hour of break per day. (Regulatory Citations: -	Regulatory Citations: - Ministerial Regulation (No.2) issued under the Labor Protection Act B.E. 2541, section 23 NOTE: On a typical workday, employees must be entitled to a rest period of 1 hour after 5 consecutive working hours. However, the employer and the employee may agree in advance	<input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant	

<p>Ministerial Regulation (No.2) issued under the Labor Protection Act B.E. 2541, section 23)</p>	<p>to a rest period shorter than 1 hour, but the total rest periods during a working day may not be less than 1 hour per day.</p>		
<p>4.7 The facility ensures that the fixed working hours for the employees who engage in transportation work do not exceed 8 hours per day. (Regulatory Citations: - Ministerial Regulation (No. 12) issued under the Labor Protection Act B.E. 2541, clause 2)</p>	<p>Regulatory Citations: -Ministerial Regulation (No. 12) issued under the Labor Protection Act B.E. 2541, clause 2</p> <p>NOTE: Employees who engage in transport work are defined as employees who are responsible for the transportation or transferring of people or materials using motor vehicles (e.g. drivers).</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>4.8 The facility ensures the fixed working hours for an employee whose works may be detrimental to his/her health or body do not 7 hours per days, or 42 hours per week, in total. (Regulatory Citations: -Labor Protection Act B.E. 2541 (1998), Section 23-Ministerial Regulation (No.2) issued under the Labor Protection Act B.E. 2541-Ministerial Regulation (No. 12) issued under the Labor Protection Act B.E. 2541)</p>	<p>Regulatory Citations: -Labor Protection Act B.E. 2541 (1998), Section 23 -Ministerial Regulation (No.2) issued under the Labor Protection Act B.E. 2541 -Ministerial Regulation (No. 12) issued under the Labor Protection Act B.E. 2541</p> <p>NOTE: Work that may be detrimental to health or body includes the following work: 1. Working in a cave, underground or in a confined space; 2. Working with radioactive materials; 3. Metal welding; 4. Transporting hazardous materials; 5. Hazardous chemical manufacturing; 6. Working with machinery that causes harmful level of vibration; 7. Working in a place where the temperature is significantly higher or lower.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>4.9 The facility has adequate ventilation with doors, windows and openings making up at least 10% of each workroom area or a fresh air supply of at least 0.5 m3/min per person are provided. (Regulatory Citations: -Ministerial Regulation no.2 (B.E. 2535) of 24 September 1992 issued under the Factory Act (B.E. 2535) on Criteria Relating to Location and Environment of the Factory, Nature and interior nature of the Factories, clause 5(2))</p>	<p>Regulatory Citations: -Ministerial Regulation no.2 (B.E. 2535) of 24 September 1992 issued under the Factory Act (B.E. 2535) on Criteria Relating to Location and Environment of the Factory, Nature and interior nature of the Factories, clause 5(2)</p> <p>NOTE: The facility must be sufficiently ventilated so that the total area of doors, windows and openings is at least 10% of each workroom area or a fresh air supply of at least 0.5 m3/min per person is provided.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>4.10 Any area in which employees work with dangerous chemicals is sufficiently ventilated with at least 18% of the volume of air being oxygen. (Regulatory Citations: - Notification of the Ministry of Interior of 22 August 1991 issued under the Notification of Revolutionary Party no. 103 on Working Safety with Regard to dangerous Chemicals, clause 8)</p>	<p>Regulatory Citations: -Notification of the Ministry of Interior of 22 August 1991 issued under the Notification of Revolutionary Party no. 103 on Working Safety with Regard to dangerous Chemicals, clause 8</p> <p>No further guidance has been specified.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>4.11 If the facility operates ammonia refrigeration systems that use ammonia as the refrigerant, it has installed at least one monitoring equipment unit to monitor ammonia vapor in a mechanical room and another one at the working station where refrigeration systems are installed. (Regulatory Citations: - Ministerial Regulation Prescribing Safety and Environmental Protection Measures for the Operation of Ammonia Refrigeration Systems of 2011 (B.E. 2554), 13(2))</p>	<p>Regulatory Citations: -Ministerial Regulation Prescribing Safety and Environmental Protection Measures for the Operation of Ammonia Refrigeration Systems of 2011 (B.E. 2554), 13(2)</p> <p>NOTE: The facilities existed before 12 April 2011 are required to comply with this requirement (under the Ministerial Regulation Prescribing Safety and Environment Protection Measures for the Operation of Ammonia Refrigeration Systems 2011) by 10 October 2011.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>4.12 If the facility operates ammonia refrigeration systems that use ammonia as the refrigerant, it ensures that mechanical room is provided with sufficient ventilation to ensure the safety of workers. (Regulatory Citations: -</p>	<p>Regulatory Citations: -Ministerial Regulation Prescribing Safety and Environmental Protection Measures for the Operation of Ammonia Refrigeration Systems of 2011 (B.E. 2554), 14(kor.)(1)</p> <p>NOTE: The facility is in compliance with this requirement if its mechanical room has either installed: (1) a stack ventilation (ปล่องระบายอากาศ) sufficient to ensure safety of the workers;</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	

<p>Ministerial Regulation Prescribing Safety and Environmental Protection Measures for the Operation of Ammonia Refrigeration Systems of 2011 (B.E. 2554), 14(kor.)(1)</p>	<p>(2) a ventilation fan (พัดลมระบายอากาศ) that is capable of completely achieving air changes by 20 minutes, and removing contaminated air outside of the room. NOTE: The facilities existed before 12 April 2011 are required to comply with this requirement (under the Ministerial Regulation Prescribing Safety and Environment Protection Measures for the Operation of Ammonia Refrigeration Systems 2011) by 10 October 2011.</p>		
<p>4.13 The facility ensures that heat levels at the operation site do not exceed the heat level standards of 34°C for light work, 32°C for medium work and 30°C for heavy work, as specified in the Annex to chapter 1 in Notification of Ministry of Industry No.8/2004 issued under Factory Act 1992. (Regulatory Citations: - Notification of Ministry of Industry No.8/2004 issued under Factory Act 1992, sections 1-2)</p>	<p>Regulatory Citations: -Notification of Ministry of Industry No.8/2004 issued under Factory Act 1992, sections 1-2</p> <p>NOTE: The heat level is measured in an average of Wet Bulb Globe Temperature (WBGT) specified as degree Celsius. The WBGT Index is a system for combining shade, air temperature, radiation, humidity, and wind into a single value. This value is obtained by reading three simple instruments and multiplying each reading by a known factor. NOTE: The heat level standard is for: 1. light work: 34.0 degree Celsius; 2. medium work: 32.0 degree Celsius; 3. heavy work: 30.0 degree Celsius. NOTE: Light work is defined as work using little physical force, or the equivalent to burning less than 200 kilocalorie/hour (e.g. office work, standing work and similar). NOTE: Medium work is defined as work using medium physical force equivalent to burning 200 - 350 kilocalorie/hour e.g. lifting jobs, pushing or moving things and similar. NOTE: Heavy work is defined as work requiring the use of extreme physical force equivalent to burning 350 - 500 kilocalorie/hour, e.g. digging, lifting and the removal of heavy objects and similar.</p>	<p><input type="radio"/> Not Applicable</p> <p><input type="radio"/> Compliant</p> <p><input type="radio"/> Non-Compliant</p>	
<p>4.14 Within a work place, the temperature conditions do not cause the employee's body temperature to rise above the prescribed limit. (Regulatory Citations: - Ministerial Regulation Prescribing Occupational Safety, Health and Environmental Standards in Relation to Working With Heat, Light and Noise B.E. 2549 (2006), clause 3)</p>	<p>Regulatory Citations: -Ministerial Regulation Prescribing Occupational Safety, Health and Environmental Standards in Relation to Working With Heat, Light and Noise B.E. 2549 (2006), clause 3</p> <p>NOTE: Heat levels may not exceed 34°C for light work, 32° C for moderate work or 30°C for heavy work.</p>	<p><input type="radio"/> Not Applicable</p> <p><input type="radio"/> Compliant</p> <p><input type="radio"/> Non-Compliant</p>	
<p>4.15 If heat at the workplace cannot be regulated, employees are provided with heat protective equipment to prevent their body's temperature rising above 38° C. (Regulatory Citations: - Ministerial Regulation Prescribing Occupational Safety, Health and Environmental Standards in Relation to Working With Heat, Light and Noise B.E. 2549 (2006), clause 13 (1))</p>	<p>Regulatory Citations: -Ministerial Regulation Prescribing Occupational Safety, Health and Environmental Standards in Relation to Working With Heat, Light and Noise B.E. 2549 (2006), clause 13 (1)</p> <p>No further guidance has been specified.</p>	<p><input type="radio"/> Not Applicable</p> <p><input type="radio"/> Compliant</p> <p><input type="radio"/> Non-Compliant</p>	
<p>4.16 If the facility operates any factory as listed under the Notification of the Ministry of Industry of 2003 regarding safety measures in the operation with regards to working environment, it has conducted the measurements and analysis of heat levels in working areas at least once a year, and kept the report at the premises available for inspection by the officer. (Regulatory Citations: - Notification of Ministry of Industry on the Safety Measures in Relation to Working Environment of B.E. 2006 (2003), clause 11)</p>	<p>Regulatory Citations: -Notification of Ministry of Industry on the Safety Measures in Relation to Working Environment of B.E. 2006 (2003), clause 11</p> <p>NOTE: The following factories are subject to this requirement, those that engage in: 1. Manufacture of sugar, white sugar, and purification of sugar 2. Finishing of textiles 3. Manufacture of pulp, paper, cardboard, fibrous paper for construction, or fiber sheet 4. Manufacture of rubber tires; retreading and rebuilding of rubber tires 5. Manufacture of glass, glass fiber or glass product 6. Manufacture of cement, lime, or plaster cement 7. Manufacture of basic iron and steel 8. Manufacture of basic nonferrous metals 9. Manufacture of cutlery, hand tools, and general hardware 10. Manufacture of furniture made of metal or metal alloy 11. Manufacture of fabricated metal products used in construction 12. Manufacture of fabricated metal products 13. Manufacture of engines, turbines, and associated parts 14. Manufacture of agricultural and forestry machinery 15. Manufacture of machine tools 16. Manufacture of electric lamps and lighting equipment 17. Manufacture of motor vehicles 18. Manufacture of motorcycle, tricycle, or bicycle 19. Manufacture of aircraft, spacecraft, and hovercraft ship 20. Manufacture of other transport equipment 21. Production, transmission, and distribution of electricity 22. Washing and (dry-) cleaning of textiles and fur products 23. Manufacture of fabricated metal product without heat treatment 24. Steam and hot water supply - Factory types 61-68 and 77-80: apply only to those with metal smelters. - Factory type 98: apply only to those that engage in the dyeing process NOTE: The report on heat level measurement and analysis must be certified and signed by a safety officer or an officer who holds a Bachelor of Science degree (B.Sc. officer). NOTE: The method used to measure and analyze heat levels must follow an international standard such</p>	<p><input type="radio"/> Not Applicable</p> <p><input type="radio"/> Compliant</p> <p><input type="radio"/> Non-Compliant</p>	

	as the Occupational Health and Safety Administration (OSHA), the National Institute for Occupational Safety and Health (NIOSH) or other methods approved by the DIW.		
4.17 The lighting intensity in the general areas of the facilities such as walkways, bathrooms and restrooms meets the standards prescribed in the Annex 1 of the Ministerial Regulation of 2006. (Regulatory Citations: - Ministerial Regulation Prescribing Occupational Safety, Health and Environmental Standards in Relation to Working With Heat, Light and Noise B.E. 2549 (2006), clause 5)	Regulatory Citations: - Ministerial Regulation Prescribing Occupational Safety, Health and Environmental Standards in Relation to Working With Heat, Light and Noise B.E. 2549 (2006), clause 5 NOTE: The lighting intensity standards for different industries and different areas of the workplace such as working areas, pathways, warehouses, storerooms and also the specific standards for various forms of work require that the light intensity levels be no less than the following levels: - Roads and pathways outside of building within workplace: 20 lux - Walkways and stairs within workplace: 50 lux - Storeroom/warehouse: 50 - 200 lux.	<input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant	
4.18 The lighting intensity in the areas of production/process where employees are working meets the standard prescribed in the Annex 2 of the Ministerial Regulation of 2006. (Regulatory Citations: - Ministerial Regulation Prescribing Occupational Safety, Health and Environmental Standards in Relation to Working With Heat, Light and Noise B.E. 2549 (2006), clause 5)	Regulatory Citations: - Ministerial Regulation Prescribing Occupational Safety, Health and Environmental Standards in Relation to Working With Heat, Light and Noise B.E. 2549 (2006), clause 5 NOTE: Annex 2 of the Ministerial Regulation of 2006 prescribed level of light intensity as follows: 1. Chemical industries: - Facilities producing medicines and chemicals: 200-400 Lux 2. Plastic and rubber industries: 200-300 Lux 3. Steel industries: 200-600 Lux 4. Other industries: - boiler operation areas: 50-200 Lux.	<input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant	
4.19 The lighting intensity is no less than the standard prescribed in the Annex 4 of the Ministerial Regulation of 2006 for work requiring a certain degree of precision. (Regulatory Citations: - Ministerial Regulation Prescribing Occupational Safety, Health and Environmental Standards in Relation to Working With Heat, Light and Noise B.E. 2549 (2006), clause 5)	Regulatory Citations: - Ministerial Regulation Prescribing Occupational Safety, Health and Environmental Standards in Relation to Working With Heat, Light and Noise B.E. 2549 (2006), clause 5 NOTE: Annex 4 sets forth the following lighting levels: 1. Work of imprecise nature: 200 lux 2. Work of small degree of precision: 300-400 lux 3. Work of medium degree of precision: 600 lux 4. Work of higher than medium degree of precision: 800-1200 lux 5. Work of highest degree of precision: 600 lux 6. Work of special degree of precision and long period/duration: 2400 lux	<input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant	
4.20 Measures have been taken to prevent direct light or reflected light from the sun or a light-generator from shining into employees' eyes while working. (Regulatory Citations: - Ministerial Regulation Prescribing Occupational Safety, Health and Environmental Standards in Relation to Working With Heat, Light and Noise B.E. 2549 (2006), clause 6)	Regulatory Citations: - Ministerial Regulation Prescribing Occupational Safety, Health and Environmental Standards in Relation to Working With Heat, Light and Noise B.E. 2549 (2006), clause 6 NOTE: If such prevention cannot be effectively rendered, employees are made to wear light-protective eyepieces or visors of the prescribed standard throughout the working period.	<input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant	
4.21 The facility complies with the sanitary conditions for human habitation. (Regulatory Citations: - Public Health Act of 29 March B.E. 2535 (1992), section 21)	Regulatory Citations: - Public Health Act of 29 March B.E. 2535 (1992), section 21 NOTE: The requirements apply to all types of "buildings" as prescribed under the Public Health Act. "Buildings" include offices, factories, warehouses, and other types of buildings where people can live or can use.	<input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant	
4.22 Sufficient and suitable sanitary conveniences (lavatories, urinals and washbasins) for persons employed in the facility are provided, maintained, and kept clean, and where persons of both sexes are employed, separate sanitary accommodation for persons of each sex is provided. (Regulatory Citations: - Ministerial Regulation No. 21 B.E. 2551 (2008) issued under the Factory Act B.E. 2535, clause 1 - Ministerial Regulation on the Workplace Welfare of 2005, clause 1(2) - Ministerial Regulation (No. 63) of 2008 issued under the Building Control Act, Table II)	Regulatory Citations: - Ministerial Regulation No. 21 B.E. 2551 (2008) issued under the Factory Act B.E. 2535, clause 1 - Ministerial Regulation on the Workplace Welfare of 2005, clause 1(2) - Ministerial Regulation (No. 63) of 2008 issued under the Building Control Act, Table II NOTE: Owners of buildings or factories that have obtained construction permits before 21 July 2008 are not required to comply with the Ministerial Regulation No.63 of 2008 issued under the Building Control Act, detailing sanitary requirements. However, if the facility seeks to renovate or alter sanitary conveniences of the buildings/factories differently from what have been approved under the building permit obtained earlier, they will then be subject to the requirements under the Ministerial Regulations No.63. NOTE: For a new building/facility that was built or renovated after 21 July 2008, adequate lavatories must be provided separately for female workers according to their needs as follows: 1) One lavatory, one urinal,	<input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant	

<p>Building Control Act, Table II)</p>	<p>one bathroom, and one washbasin per 15 or fewer male workers; 2) Two lavatories, one bathroom and one washbasin per 15 or fewer female workers; 3) Two lavatories, two urinals, two bathrooms, and two washbasins per 16 to 40 male workers; 4) Four lavatories, two bathrooms and two washbasins per 16 to 40 female workers; 5) Three lavatories, three urinals, three bathrooms, and three washbasins per 41 to 80 male workers; 6) Six lavatories, three bathrooms, three washbasins per 41 to 80 female workers. For 5) and 6) above, if the numbers of employees are exceeding the limits, one additional lavatory, urinal or bathroom will have to be provided per 50 additional workers. NOTE: Lavatories and urinals must discharge into septic tanks; lavatory floors must be nonabsorbent; adequate water supply must be provided in each lavatory; sufficient and suitable bathrooms with accompanying appliances must be provided; good ventilation systems must be provided in each lavatory, urinal and bathroom; lavatories, urinals and bathrooms must conform to sanitary conditions.</p>		
<p>4.23 Lavatories are provided with a ventilation system, toilet paper or water for cleaning and adequate hand washing facilities. (Regulatory Citations: - Ministerial Regulation (No. 63) of 2008 issued under the Building Control Act, clause 2)</p>	<p>Regulatory Citations: -Ministerial Regulation (No. 63) of 2008 issued under the Building Control Act, clause 2 No further guidance has been specified.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>4.24 An adequate supply of clean drinking water is provided and maintained at a suitable point with at least one drinking water station available for every 40 employees. (Regulatory Citations: -Ministerial Regulation on the Workplace Welfare of 2005, clause 1)</p>	<p>Regulatory Citations: -Ministerial Regulation on the Workplace Welfare of 2005, clause 1 NOTE: There must be one drinking water station available for every 40 employees (a fraction of 40 is considered as 40 if over 20 employees).</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>5.0 Manual Handling of Loads / Back Injury Prevention Top</p>			
<p>5.1 If the facility requires its employees to lift, carry, or move any object that weighs more than maximum allowable weight, it has provided them with lifting equipment. (Regulatory Citations: -Ministerial Regulation on Lifting Limits for Employees of B.E. 2547 (2003), Clause 1)</p>	<p>Regulatory Citations: -Ministerial Regulation on Lifting Limits for Employees of B.E. 2547 (2003), Clause 1 NOTE: Ministerial Regulation on lifting limit for employees of 2004 sets forth the maximum allowable weights based on each employee's weight: 1. Twenty kg. for a young-woman-worker (15-17 years of age); 2. Twenty five kg. for a young-man-worker (15-17 years of age); 3. Twenty five kg. for female worker: 4. Fifty five kg. for male worker.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>6.0 Chemical Agents Top</p>			
<p>6.1 Facilities such as showers or eyewashes for washing off dangerous chemicals are provided in areas where employees work with harmful chemicals. (Regulatory Citations: - Notification of the Ministry of Interior of 22 August 1991 issued under the Notification of Revolutionary Party no. 103 on Working Safety with Regard to dangerous Chemicals, clause 13)</p>	<p>Regulatory Citations: -Notification of the Ministry of Interior of 22 August 1991 issued under the Notification of Revolutionary Party no. 103 on Working Safety with Regard to dangerous Chemicals, clause 13 No further guidance has been specified.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>6.2 The facility measures the concentration of dangerous chemicals in the atmosphere around the workplace at least once every 6 months and reports the results using the form prescribed by the Director-General of the Labor Protection and Welfare Department within 30 days from the date of measurement. (Regulatory Citations: -Notification of the Ministry of Interior of 22 August 1991 issued under the Notification of Revolutionary Party no. 103 on Working Safety with Regard to dangerous Chemicals, clause 16)</p>	<p>Regulatory Citations: -Notification of the Ministry of Interior of 22 August 1991 issued under the Notification of Revolutionary Party no. 103 on Working Safety with Regard to dangerous Chemicals, clause 16 No further guidance has been specified.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>6.3 Throughout the normal working period, none of the</p>	<p>Regulatory Citations: -Notification of the Ministry of Interior of 30 May 1977 issued</p>	<p><input type="radio"/> Not Applicable</p>	

<p>average atmospheric chemical concentrations in the workplace exceed those listed in the annexes to the Notification of Ministry of Interior on Safety relating to Environmental Condition (Chemical) issued under the Revolutionary Council Announcement. (Regulatory Citations: -Notification of the Ministry of Interior of 30 May 1977 issued under the Notification of Revolutionary Party no. 103 on work safety relating to environmental conditions (i.e. chemical exposure))</p>	<p>under the Notification of Revolutionary Party no. 103 on work safety relating to environmental conditions (i.e. chemical exposure)</p> <p>NOTE: Table 1 annexed to the Notification lists the following chemical concentration limits (mg/M3) 1. Aldrin 0.25 2. Azinphos-methyl 0.2 3. Chlordane 0.5 4. DDT 1 5. DDVP 1 6. Dichlovos 1 7. Dieldrin 0.25 8. Endrin 0.1 9. Guthion 0.2 10. Carbon dioxide 9,000 NOTE: Table 2 annexed to the Notification lists the following chemical concentration limits (ppm and mg/M3): 1. Allyl glycidyl ether (AGE) 10 / 45 2. Boron Trifluoride 1 / 3 3. Butylamine 5 / 15 4. Iodine 0.1 / 1 5. Methyl bromide 20 / 80 6. Methylene bisphenyl isocyanate (MDI) 0.02 / 0.2 NOTE: Table 3 lists the chemical concentration limits in more details: chemical names, maximum concentration limits during the normal working period, maximum concentration limits for certain periods of time: 1. Benzene 10 ppm or 50 ppm per 10 minutes; 2. Carbondisulfide 20 ppm or 100 ppm per 30 minutes; 3. Ethylene dibromide 20 ppm or 50 ppm per 5 minutes; 4. Formaldehyde 3 ppm or 10 ppm per 30 minutes.</p>	<p><input type="radio"/> Compliant</p> <p><input type="radio"/> Non-Compliant</p>	
<p>6.4 Throughout the normal working period, the average levels of atmospheric mineral dust in the workplace do not exceed those listed in Table 4 annexed to the Notification of the Ministry of Interior on Safety relating to Environmental Condition (Chemical) issued under the Revolutionary Council Announcement No. 103. (Regulatory Citations: - Notification of the Ministry of Interior of 30 May 1977 issued under the Notification of Revolutionary Party no. 103 on work safety relating to environmental conditions (i.e. chemical exposure), clause 5)</p>	<p>Regulatory Citations: -Notification of the Ministry of Interior of 30 May 1977 issued under the Notification of Revolutionary Party no. 103 on work safety relating to environmental conditions (i.e. chemical exposure), clause 5</p> <p>NOTE: Table 4 lists the limits of mineral dust as follows (in Million particles per cubic foot or Mppcf): 1. Amorphus 20 2. Silicates - asbestos 5 - tremolite 5 - mica 20 - soapstone 20 - graphite 15 3. Inert or nuisance dust - respirable dust 15 - total dust 50</p>	<p><input type="radio"/> Not Applicable</p> <p><input type="radio"/> Compliant</p> <p><input type="radio"/> Non-Compliant</p>	
<p>6.5 Where the permitted exposure limit levels are exceeded the facility provides remedies to lower the concentration of the substance in question to the extent that it meets the requirements; or every employee is made to wear appropriate personal protective equipment of the prescribed standard. (Regulatory Citations: - Notification of the Ministry of Interior of 30 May 1977 issued under the Notification of Revolutionary Party no. 103 on work safety relating to environmental conditions (i.e. chemical exposure), clause 7)</p>	<p>Regulatory Citations: -Notification of the Ministry of Interior of 30 May 1977 issued under the Notification of Revolutionary Party no. 103 on work safety relating to environmental conditions (i.e. chemical exposure), clause 7</p> <p>No further guidance has been specified.</p>	<p><input type="radio"/> Not Applicable</p> <p><input type="radio"/> Compliant</p> <p><input type="radio"/> Non-Compliant</p>	
<p>6.6 No employee is allowed to use the space where work involving any dangerous chemicals, storage or transport of harmful chemical(s) is carried out as his/her living space. (Regulatory Citations: - Notification of the Ministry of Interior of 22 August 1991 issued under the Notification of Revolutionary Party no. 103 on Working Safety with Regard to dangerous Chemicals, clause 9)</p>	<p>Regulatory Citations: -Notification of the Ministry of Interior of 22 August 1991 issued under the Notification of Revolutionary Party no. 103 on Working Safety with Regard to dangerous Chemicals, clause 9</p> <p>No further guidance has been specified.</p>	<p><input type="radio"/> Not Applicable</p> <p><input type="radio"/> Compliant</p> <p><input type="radio"/> Non-Compliant</p>	
<p>6.7 No employee is allowed to smoke, drink, eat or store food at the place of production, storage or transfer of harmful chemical (s). (Regulatory Citations: - Notification of the Ministry of Interior of 22 August 1991 issued under the Notification of Revolutionary Party no. 103 on Working Safety with</p>	<p>Regulatory Citations: -Notification of the Ministry of Interior of 22 August 1991 issued under the Notification of Revolutionary Party no. 103 on Working Safety with Regard to dangerous Chemicals, clause 11</p> <p>No further guidance has been specified.</p>	<p><input type="radio"/> Not Applicable</p> <p><input type="radio"/> Compliant</p> <p><input type="radio"/> Non-Compliant</p>	

<p>Regard to dangerous Chemicals, clause 11)</p>			
<p>6.8 If the facility requires its employees to handle with transport or transfer of dangerous chemicals, it has provided them with a manual (in Thai) and necessary trainings at least once every year, to ensure they know how to respond to an accident that might occur. (Regulatory Citations: - Notification of Department of Labor Protection and Welfare on the Measures and Procedures for Transportation, Storage, Transfer, and Disposal of Packages, Containers or Wrapping of Dangerous Chemical Substances of 1992, clause 1(3))</p>	<p>Regulatory Citations: -Notification of Department of Labor Protection and Welfare on the Measures and Procedures for Transportation, Storage, Transfer, and Disposal of Packages, Containers or Wrapping of Dangerous Chemical Substances of 1992, clause 1(3) NOTE: A manual must be kept at the vehicles used for transportation.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>6.9 The facility stores dangerous chemicals at the storage located at least eight meters away from the employees' working area. (Regulatory Citations: - Notification of Department of Labor Protection and Welfare on the Measures and Procedures for Transportation, Storage, Transfer, and Disposal of Packages, Containers or Wrapping of Dangerous Chemical Substances of 1992, clause 3)</p>	<p>Regulatory Citations: -Notification of Department of Labor Protection and Welfare on the Measures and Procedures for Transportation, Storage, Transfer, and Disposal of Packages, Containers or Wrapping of Dangerous Chemical Substances of 1992, clause 3 No further guidance has been provided.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>6.10 If the facility engages in any transportation of dangerous chemicals by vehicles, it has kept a portable fire extinguisher, and a chemical protection mask or a breathing apparatus available at those vehicles, ready for usage anytime. (Regulatory Citations: -Notification of Department of Labor Protection and Welfare on the Measures and Procedures for Transportation, Storage, Transfer, and Disposal of Packages, Containers or Wrapping of Dangerous Chemical Substances of 1992, clause 1(4))</p>	<p>Regulatory Citations: -Notification of Department of Labor Protection and Welfare on the Measures and Procedures for Transportation, Storage, Transfer, and Disposal of Packages, Containers or Wrapping of Dangerous Chemical Substances of 1992, clause 1(4) No further guidance has been provided.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>6.11 If an operation of the facility exposes employees to an average noise level of 85 decibels-A (dBA) during 8-hour work period, it creates and maintains a noise control and hearing conservation program. (Regulatory Citations: - Ministerial Regulation Prescribing Occupational Safety, Health and Environmental Standards in Relation to Working With Heat, Light and Noise B.E. 2549 (2006), clause 12-Notification of Department of Labor Protection and Welfare establishing Required Details of Noise Control and Hearing Conservation Program of the Workplace of 2010)</p>	<p>Regulatory Citations: -Ministerial Regulation Prescribing Occupational Safety, Health and Environmental Standards in Relation to Working With Heat, Light and Noise B.E. 2549 (2006), clause 12 -Notification of Department of Labor Protection and Welfare establishing Required Details of Noise Control and Hearing Conservation Program of the Workplace of 2010 NOTE: As a minimum, the program must include the following information: 1. Hearing conservation policy; 2. Noise monitoring plan; 3. Hearing monitoring plan; 4. Duties of the relevant parties. NOTE: The employers must comply with the following requirements: 1. Conduct measurements of noise levels at the workplace and analyze and report the results to the employees. 2. Inform all employees of the noise level measurement results, and provide diagrams showing the noise level in each area within the workplace. 3. Provide all employees with training on the hearing conservation program. 4. Keep all relevant records of the program at the workplace for at least five years, and make them available for inspection by the labor inspector.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>6.12 If the facility operates any factories as listed under the Notification of Ministry of Industry of 2003 regarding safety measures in the operation with regards to</p>	<p>Regulatory Citations: -Notification of Ministry of Industry on the Safety Measures in Relation to Working Environment of B.E. 2006 (2003), clauses 11</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	

<p>working environment, it has conducted the measurements and analysis on noise levels in the working areas at least once a year. (Regulatory Citations: - Notification of Ministry of Industry on the Safety Measures in Relation to Working Environment of B.E. 2006 (2003), clauses 11)</p>	<p>NOTE: The following facilities are subject to this requirement, those that engage in: 1. Quarrying of stone 2. Manufacture of sugar, white sugar, and purification of sugar 3. Manufacture of ice 4. Manufacture of carbonated beverages (only the one using glass bottle) 5. Production and spinning of textile fiber; weaving of textile 6. Manufacture of veneer sheets 7. Manufacture of plywood, laminboard, particle board and other panels and boards 8. Manufacture of pulp from wood or other materials 9. Recycling of plastic waste and scrap 10. Manufacture of cutlery, hand tools, and general hardware 11. Manufacture of furniture made of metal or metal alloy 12. Manufacture of fabricated metal products used in construction 13. Manufacture of fabricated metal products 14. Manufacture of engines, turbines, and associated parts 15. Manufacture of agricultural and forestry machinery 16. Manufacture of machine tools 17. Manufacture of motor vehicles 18. Manufacture of motorcycle, tricycle, or bicycle 19. Manufacture of aircraft, spacecraft, and hovercraft ship 20. Manufacture of other transport equipment 21. Production, transmission, and distribution of electricity - Factory types 61-68 and 77-80: apply only to those with metal working. NOTE: The report must be signed by a safety officer or an officer possessing a B.Sc. and be maintained on site for inspection by government officers. The method used to measure and analyze must follow an international standard such as the Occupational Safety and Health Administration (OSHA), the National Institute for Occupational Safety and Health (NIOSH) or another method approved by the DIW.</p>		
<p>6.13 The employer does not allow any employee to enter an area where the noise exposure level exceeds 140 dB. (Regulatory Citations: - Notification of Ministry of Industry on the Safety Measures in Relation to Working Environment of B.E. 2006 (2003), clause 9)</p>	<p>Regulatory Citations: -Notification of Ministry of Industry on the Safety Measures in Relation to Working Environment of B.E. 2006 (2003), clause 9</p> <p>NOTE: In the area where noise exposure levels exceed 140 dB, the employer must post a sign stating that the noise exposure levels exceed the prescribed limit.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>6.14 If the facility is required to prepare a hearing conservation plan, it carries out the required audiometric testing as part of this plan and reports the results to the employees within 7 days of learning the results. (Regulatory Citations: - Ministerial Regulation Prescribing Occupational Safety, Health and Environmental Standards in Relation to Working With Heat, Light and Noise B.E. 2549 (2006), clause 12)</p>	<p>Regulatory Citations: -Ministerial Regulation Prescribing Occupational Safety, Health and Environmental Standards in Relation to Working With Heat, Light and Noise B.E. 2549 (2006), clause 12</p> <p>NOTE: Employers must conduct this audiometric testing at least once every year. Employers must conduct another Audiometric Testing within 30 days of being made aware that any employees are losing their hearing ability. This requirement applies when the test results show that any employee loses hearing capacity of 15 dBA or more in any one ear, at any frequency measured. NOTE: Employers must comply with the following instructions when analyzing the test results: (i) use the result of the first test measured at the different frequency levels: 500, 1,000, 2,000, 3,000, 4,000 and 6,000 Hz of both ears as the Baseline Audiogram (ข้อมูลพื้นฐาน); and (ii) compare the result of all subsequent tests with the baseline audiogram. If the test results show that an employee has lost hearing capacity in any ear of 15 dBA or more, at any of the frequency levels measured, the employers must provide the following protective measures to such employees: (i) provide them with personal protective equipment that can reduce the noise level to lower than 85 dBA/8-hour; (ii) switch the works/tasks among the employees to expose that employee to a noise level of lower than 85 dBA/8-hour.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>6.15 If the facility is required to prepare a hearing conservation plan, it has reviewed the plan at least once a year. (Regulatory Citations: -Ministerial Regulation Prescribing Occupational Safety, Health and Environmental Standards in Relation to Working With Heat, Light and Noise B.E. 2549 (2006), clause 12-Notification of Department of Labor Protection and Welfare establishing Required Details of Noise Control and Hearing Conservation Program of the Workplace of 2010)</p>	<p>Regulatory Citations: -Ministerial Regulation Prescribing Occupational Safety, Health and Environmental Standards in Relation to Working With Heat, Light and Noise B.E. 2549 (2006), clause 12 -Notification of Department of Labor Protection and Welfare establishing Required Details of Noise Control and Hearing Conservation Program of the Workplace of 2010</p> <p>NOTE: The facility must keep all relevant records of the program at the workplace for at least 5 years, and make them available for inspection by the labor inspector.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>6.16 The facility posts a sign stating that the noise exposure level of 140 dB has been exceeded at that location. (Regulatory Citations: -Notification of Ministry of Industry on the</p>	<p>Regulatory Citations: -Notification of Ministry of Industry on the Safety Measures in Relation to Working Environment of B.E. 2006 (2003), clause 9</p> <p>NOTE: The allowable noise exposure levels (per day) are as follows: - 115 dB(A) for 1/4 hr or less - 110 dB(A) for 1/2 hr - 105</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	

<p>Safety Measures in Relation to Working Environment of B.E. 2006 (2003), clause 9</p>	<p>dB(A) for 1 hr - 102 dB(A) for 1-1/2 hr - 100 dB(A) for 2 hrs - 97 dB(A) for 3 hrs - 95 dB(A) for 4 hrs - 93 dB(A) for 5 hrs - 92 dB(A) for 6 hrs - 91 dB(A) for 7 hrs - 90 dB(A) for 8 hrs - 87 dB(A) for 12 hrs</p>		
<p>6.17 The facility arranges for adequate medical examinations at least every 6 months for employees that work on any machinery or equipment that produces vibrations, and reports the results to the Director-General of the Department of Labor Protection and Welfare or a person assigned by the Director-General within thirty days and keeps records for the prescribed time. (Regulatory Citations: Labor Protection Act B.E. 2541 (1998), section 107-Ministerial Regulation on Criteria and Procedures for Health Examination of Employees and Submission of Report to Labor Inspector, B.E. 2547 (2004))</p>	<p>Regulatory Citations: Labor Protection Act B.E. 2541 (1998), section 107 Ministerial Regulation on Criteria and Procedures for Health Examination of Employees and Submission of Report to Labor Inspector, B.E. 2547 (2004)</p> <p>NOTE: For each physical examination, the employer must: 1.report the examination results to the Director-General of the Department of Labor Protection and Welfare or a person assigned by the Director-General within thirty days from learning the results; and 2.keep examination results for each employee in the work premises for a period of not less than two years from the date of termination of employment of each employee. However, if a complaint or suit is brought against the employer, then the results must be kept until an order or final judgment concerning such case is rendered.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>6.18 The facility does not require any pregnant worker or worker who is under 18 years old to work with the machines that cause vibration. (Regulatory Citations: Labor Protection Act B.E. 2541 (1998))</p>	<p>Regulatory Citations: Labor Protection Act B.E. 2541 (1998)</p> <p>No further guidance has been provided.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>6.19 The facility arranges adequate medical examinations for employees that work with asbestos or materials containing asbestos prior to the start of work and at least once every year, reports the results to the Department of Labor Protection and Welfare and keeps a record. (Regulatory Citations: Labor Protection Act B.E. 2541 (1998), section 107-Ministerial Regulation on Criteria and Procedures for Health Examination of Employees and Submission of Report to Labor Inspector, B.E. 2547 (2004)-Notification of Ministry of Labor of B.E. 2552 (2009) Setting Forth the Requirements of Providing a Medical Check-up Arrangement for Employees Working with the Prescribed Chemical Substances)</p>	<p>Regulatory Citations: Labor Protection Act B.E. 2541 (1998), section 107 Ministerial Regulation on Criteria and Procedures for Health Examination of Employees and Submission of Report to Labor Inspector, B.E. 2547 (2004) Notification of Ministry of Labor of B.E. 2552 (2009) Setting Forth the Requirements of Providing a Medical Check-up Arrangement for Employees Working with the Prescribed Chemical Substances</p> <p>NOTE: Asbestos is one of the chemical substances listed under the Notification of Ministry of Labor of 2009 on Types of Hazardous Chemicals that Require a Medical Check-up Arrangement for the Employees Working with the Prescribed Chemical Substances. Accordingly, the employer must arrange for the employees to have a physical check-up by a first-class physician within 30 days of the date the employee starts working for the first time, and thereafter at least once a year. If the examination results show that the employee is sick or in abnormal condition, the employee must provide immediate medical treatment and find the cause of the illness for future prevention. NOTE: For each physical examination, the employer must: 1.report the examination results to the Director-General of the Department of Labor Protection and Welfare or a person assigned by the Director-General within thirty days after learning of the results; and 2.keep examination results for each employee in the work premises for a period of no less than two years from the date of termination of employment of each employee. However, if a complaint or suit is brought against the employer, then the results must be kept until an order or final judgment concerning such case is rendered.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>6.20 The facility arranges adequate medical examinations for employees that work with lead or lead compounds, at least once every year. (Regulatory Citations: Labor Protection Act B.E. 2541 (1998), section 107-Ministerial Regulation on Criteria and Procedures for Health Examination of Employees and Submission of Report to Labor Inspector, B.E. 2547 (2004)-Notification of Ministry of Labor of B.E. 2552 (2009) Setting Forth the Requirements of Providing a Medical Check-up Arrangement for Employees Working with the Prescribed Chemical Substances, clause 3)</p>	<p>Regulatory Citations: Labor Protection Act B.E. 2541 (1998), section 107 Ministerial Regulation on Criteria and Procedures for Health Examination of Employees and Submission of Report to Labor Inspector, B.E. 2547 (2004) Notification of Ministry of Labor of B.E. 2552 (2009) Setting Forth the Requirements of Providing a Medical Check-up Arrangement for Employees Working with the Prescribed Chemical Substances, clause 3</p> <p>NOTE: For each physical examination, the employer must: 1.report the examination results to the Director-General of the Department of Labor Protection and Welfare or a person assigned by the Director-General within thirty days after learning of the results; and 2.keep examination results for each employee in the work premises for a period of not less than two years from the date of termination of employment of each employee. However, if a complaint or suit is brought against the employer, then the results must be kept until an order or final judgment concerning such case is rendered.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>7.0 Ionizing & Non-Ionizing Radiation Top</p>			

<p>7.1 If the facility produces, possesses or changes the natural chemical conditions of any radioactive material, it holds a permit from the Office of Atomic Energy for Peace (OAEP). (Regulatory Citations: -Atomic Energy for Peace Act, B.E.2504 (1961), section 12)</p>	<p>Regulatory Citations: -Atomic Energy for Peace Act, B.E.2504 (1961), section 12</p> <p>NOTE: The legislation does not mention a minimum or maximum quantity of radioactive materials.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>7.2 If the facility uses any radioactive material, it appoints a staff member to be a Radioactive Substances Specialist (holding at least a Bachelor of Science, with at least 3 credits in radioactive prevention, or receiving training on radioactive material handling from the OAEP). (Regulatory Citations: -Notification No. 1/1999 on Qualification of Operator Working in Factory Using Radioactive Substances)</p>	<p>Regulatory Citations: -Notification No. 1/1999 on Qualification of Operator Working in Factory Using Radioactive Substances</p> <p>NOTE: The legislation does not mention a minimum or maximum quantity of radioactive materials.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>7.3 If the facility uses or possesses ionizing radiation sources, it reports the quantity or change in the quantity of ionizing radiation to the Director-General of the Pollution Control Department within 7 days after the date of production or possession. (Regulatory Citations: -Ministerial Regulation prescribing the Occupational Health, Safety and Environmental standards in Relation to Working with Ionizing Radiation 2004 (B.E. 2547), clause 2-Notification of Department of Labor Protection and Welfare Providing the Notification Form Required for Notifying Level of Radioactive Sources Used at the Facility and Change in the Level of Radioactive Sources 2005 (B.E. 2548))</p>	<p>Regulatory Citations: -Ministerial Regulation prescribing the Occupational Health, Safety and Environmental standards in Relation to Working with Ionizing Radiation 2004 (B.E. 2547), clause 2 -Notification of Department of Labor Protection and Welfare Providing the Notification Form Required for Notifying Level of Radioactive Sources Used at the Facility and Change in the Level of Radioactive Sources 2005 (B.E. 2548)</p> <p>NOTE: A report on the quantity and change in quantity of ionizing radiation possessed at the facility must be recorded on the from Ror.1-1 and Ror.1-2, respectively.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>7.4 If the facility uses or possesses any radioactive material, it has designated the area possessed with ionizing radiation as a controlled area and has built a fence or installed a barricade for that area, as well as displayed a sign with the phrase 'Dangerous Area of Ionizing Radiation, Do Not Enter' (ระวังอันตรายจากรังสีห้ามเข้า) written at least in Thai with the letters in black and background in yellow. (Regulatory Citations: -Ministerial Regulation prescribing the Occupational Health, Safety and Environmental standards in Relation to Working with Ionizing Radiation 2004 (B.E. 2547), clause 3)</p>	<p>Regulatory Citations: -Ministerial Regulation prescribing the Occupational Health, Safety and Environmental standards in Relation to Working with Ionizing Radiation 2004 (B.E. 2547), clause 3</p> <p>No further guidance has been provided.</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	
<p>7.5 The facility provides the employees who are potentially exposed to ionizing radiation exceeding the prescribed levels with personal protective equipment that help reduce level of exposures. (Regulatory Citations: - Ministerial Regulation prescribing the Occupational Health, Safety and</p>	<p>Regulatory Citations: -Ministerial Regulation prescribing the Occupational Health, Safety and Environmental standards in Relation to Working with Ionizing Radiation 2004 (B.E. 2547), clause 5</p> <p>NOTE: If the level of exposure exceed the following limits, the employers are required to provide employees with necessary protective equipment: (1) employees' bodies or reproductive systems are exposed to ionizing radiation in excess of 20 milli Sievert per 5 years. However, exposure level must not exceed 50 milli Sievert per year; (2) employees' eyes are exposed to</p>	<p><input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant</p>	

Environmental standards in Relation to Working with Ionizing Radiation 2004 (B.E. 2547), clause 5)	ionizing radiation in excess of 150 milli Sievert per year; (3) employees' skins/hands/feet are exposed to ionizing radiation in excess of 500 milli Sievert per year.		
7.6 If the facility manufactures or possesses any ionizing radiation source, it has in place a safety and radiation protection plan which also covers accident prevention plan, and submitted it to the Department of Labor Protection and Welfare by 30 days from the date of manufacturing or possession. (Regulatory Citations: -Ministerial Regulation prescribing the Occupational Health, Safety and Environmental standards in Relation to Working with Ionizing Radiation 2004 (B.E. 2547), clause 13) Back to Top	Regulatory Citations: -Ministerial Regulation prescribing the Occupational Health, Safety and Environmental standards in Relation to Working with Ionizing Radiation 2004 (B.E. 2547), clause 13 NOTE: Ionizing radiation source of which energy is emitted while its nucleus is decaying, or of which energy is emitted by other ways. It includes both sealed and unsealed source.	<input type="radio"/> Not Applicable <input type="radio"/> Compliant <input type="radio"/> Non-Compliant	

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