

Attachment Table in Article 79

Attachment Table 5 – Amendment Requirements

Types of Places	Items of Improvement
(1) The public hazardous materials manufacturing place and the public hazardous materials general processing place	<ol style="list-style-type: none"> 1. Containment means or leak-prevention means of equivalent performance (Subparagraph 7 of Paragraph 1 of Article 15) 2. Oil-water separation device (Subparagraph 7 of Paragraph 1 of Article 15) 3. Natural light, lighting and ventilation equipment (Subparagraph 1 of Paragraph 1 of Article 16) 4. Exhaust equipment (Subparagraph 2 of Paragraph 1 of Article 16) 5. Construction that prevents overflow or scattering (Subparagraph 3 of Paragraph 1 of Article 16) 6. Temperature measuring device (Subparagraph 4 of Paragraph 1 of Article 16) 7. A means of heating that does not rely on direct heating by fire (Subparagraph 5 of Paragraph 1 of Article 16) 8. Pressure gauges and safety devices (Subparagraph 6 of Paragraph 1 of Article 16) 9. Devices to effectively eliminate static electricity (Subparagraph 7 of Paragraph 1 of Article 16) 10. Lightning arrestor or a grounding means of equivalent protection (Subparagraph 8 of Paragraph 1 of Article 16) 11. Bulletin board (Article 19)
(2) The place for trading public hazardous materials	<ol style="list-style-type: none"> 1. Discharge equipment (Item 5 of Subparagraph 4 of Article 17, main body of Article 18) 2. Essential notices regarding fire safety in a visible location (Subparagraph 2 of Article 17; main body of Article 18) 3. Bulletin board (Article 19)
(3) The public hazardous materials indoor storage place	<ol style="list-style-type: none"> 1. Natural light, lighting and ventilation equipment (Subparagraph 13 of Article 21; Article 22; main body of Paragraph 1 of Article 23; main body of Paragraph 1 of Article 24; Paragraph 2 of Article 24; main body of Paragraph 1 of Article 25; Paragraph 2 of Article 25; Article 26, Article 27; main body of Article 28) 2. Exhaust equipment (Subparagraph 13 of Article 21; Article 22; main body of Paragraph 1 of Article 23; main body of Paragraph 1 of Article 24; Paragraph 2 of Article 24.2; main body of Article 28) 3. Ventilation equipment, air conditioning equipment or any device to maintain the interior temperature below the combustion temperature of the material stored (Subparagraph 15 of Article 21; main body of Paragraph 1 of Article 23; main body of Paragraph 1 of Article 24; main body of Article 28) 4. Fire dampers (Item 6 of Subparagraph 2 of Paragraph 1 of Article 23) 5. Racks (made of non-flammable materials and secured to a solid foundation, capable of holding the weight, and measures preventing materials from falling off) (Subparagraph 12 of Article 21; Article 22; main body of Paragraph 1 of Article 23; main body of Paragraph 1 of Article 24; Paragraph 2 of Article 24; main body of Paragraph 1 of Article 25; Paragraph 2 of Article 25; Article 26; Article 27; main body of Article 28) 6. Lightning arrestor or a grounding means of equivalent protection (Item 3 of

	<p>Subparagraph 4 of Article 21; Subparagraph 14 of Article 21; Article 22; main body of Paragraph 1 of Article 23; main body of Paragraph 1 of Article 24; Paragraph 2 of Article 24; main body of Paragraph 2 of Article 25; Paragraph 2 of Article 27; main body of Article 28)</p> <p>7. Bulletin board (Article 19)</p>
(4) The public hazardous materials outdoor storage place	<p>1. Line (height of line, area of the segregated place, construction with non-flammable materials, construction to prevent leakage of sulfur, means to secure tarpaulin) (Subparagraph 3 of Article 30; Subparagraphs 1 to 4 of Article 31)</p> <p>2. Racks (made of non-flammable materials and secured to a solid foundation, capable of holding the weight, measures preventing materials from falling off, and height of racks) (Subparagraph 6 of Article 30; main body of Article 31)</p> <p>3. Interior walkway space, storage quantity and stacking height of containers (Subparagraphs 7 and 8 of Article 30; main body of Article 31)</p> <p>4. Drainage ditch and separation troughs (Subparagraph 5 of Article 31)</p> <p>5. Bulletin board (Article 19)</p>
(5) The public hazardous materials indoor storage tank (pumping room included)	<p>1. Measures to prevent leakage of the Six Materials (Subparagraph 8 of Paragraph 1 of Article 34)</p> <p>2. Thresholds or other leakage prevention measures of equivalent performance at the access to the dedicated storage tank room (Subparagraph 16 of Paragraph 1 of Article 33)</p> <p>3. Containment measures or other leakage prevention measures of equivalent performance, and basic height of the pumping equipment (Items 2-5 and 3-1 of Subparagraph 1, Subparagraphs 2 and 3, and main body of Item 1 and Item 2-2 of Subparagraph 4 of Paragraph 1 of Article 35)</p> <p>4. Oil-water separation device (Item 3-3 of Subparagraph 1 and Subparagraph 3 of Paragraph 1 of Article 25)</p> <p>5. Natural light, lighting and ventilation equipment (Subparagraph 17 of Paragraph 1 of Article 33; main body of Paragraph 1 of Article 34; Item 2-6 of Subparagraph 1, Item 1 of Subparagraph 2, Subparagraph 3 and main body of Item 1 of Subparagraph 4 of Paragraph 1 of Article 35)</p> <p>6. Exhaust equipment (Subparagraph 17 of Paragraph 1 of Article 33; main body of Paragraph 1 of Article 34; Item 2-7 of Subparagraph 1, Item 1 of Subparagraph 2, Subparagraph 3 and main body of Item 1 of Subparagraph 4 of Paragraph 1 of Article 35)</p> <p>7. Fire dampers (Subparagraph 7 of Paragraph 1 of Article 34; Item 1-5 of Subparagraph 4 of Paragraph 1 of Article 35)</p> <p>8. Safety devices and ventilation pipes (Subparagraph 6 of Paragraph 1 of Article 33; main body of Paragraph 1 of Article 34)</p> <p>9. Automatic indication of storage capacity (Subparagraph 7 of Paragraph 1 of Article 33; main body and Subparagraph 2 of Paragraph 1 of Article 34)</p> <p>10. Inlets and valves (including leakage-proof, pipe valve or lid, grounding devices that effectively removes static electricity charge) (Items 2 to 4 of Subparagraph 8 and Subparagraph 9 of Paragraph 1 of Article 33; main body</p>

	<p>of Paragraph 1 of Article 34)</p> <ol style="list-style-type: none"> 11. Pumping equipment fixed on a solid foundation (Item 1 of Subparagraph 1, Item 1 of Subparagraph 2, Subparagraph 3, main body of Item 1 and Item 2-1 of Subparagraph 4 of Paragraph 1 of Article 35) 12. Storage tanks or pipes on the ground corrosion-proof (Subparagraph 5 of Paragraph 1 of Article 33; main body of Paragraph 1 of Article 34; Subparagraph 3 of Article 36) 13. Bulletin board (Article 19)
(6) The public hazardous materials outdoor storage tank (pumping room included)	<ol style="list-style-type: none"> 1. Dike (including volume, height of dike, drainage equipment, leak detection equipment, alarm system, access stair or ramp) (Subparagraph 19 of Article 37; Item 1 of Subparagraph 8 and Subparagraphs 11 to 14 of Paragraph 1 of Article 38; Paragraph 2 of Article 38; Subparagraph 4 of Article 39; main body of Article 40. However, for storage tanks storing Class 4 public hazardous materials, the volume shall not be less than the maximum tank in the same dike.) 2. Containment measure or other leakage-prevention measures of equivalent performance (main body of Subparagraph 13 of Article 37; main body of Subparagraph 3 of Article 39, main body of Article 40) 3. Oil-water separation equipment (main body of Subparagraph 13 of Article 37; main body of Subparagraph 3 of Article 39; main body of Article 40) 4. Natural lighting, lighting, and ventilation equipment (main body of Subparagraph 13 of Article 37; main body of Subparagraph 3 of Article 39; main body of Article 40) 5. Exhaust equipment (main body of Subparagraph 13 of Article 37; main body of Article 40) 6. Safety devices and ventilation pipes (Subparagraph 10 of Article 37; Subparagraph 1 of Article 39; main body of Article 40) 7. Automatic indication of storage capacity (Subparagraph 11 of Article 37; Subparagraph 1 of Article 39) 8. Inlets and valves (including leakage-proof, pipe valve or lid, grounding devices that effectively removes static electricity charge) (Subparagraphs 12 and 14 of Article 37; Subparagraph 1 of Article 39; main body of Article 40) 9. Device installed on the inlet to prevent rainwater (Subparagraph 20 of Article 37; main body of Article 40) 10. Equipment that contains leaked material and leads them to safety tanks, inert gas sealing equipment, cooling device, or device that maintains low temperatures (Article 40) 11. Lightning arrestor or a grounding means of equivalent protection (Subparagraph 18 of Article 37; main body of Article 40) 12. Pumping equipment fixed on a solid foundation (main body of Subparagraph 13 of Article 37; main body of Subparagraph 3 of Article 39; main body of Article 40) 13. Storage tanks or pipes on the ground corrosion-proof (Subparagraphs 8 and 17 of Article 37; Subparagraph 1 of Article 39; main body of Article 40) 14. Bulletin board (Article 19)

(7) The public hazardous materials underground storage tank (pumping room included)	<ol style="list-style-type: none"> 1. Containment measures or other leakage prevention measures of equivalent performance (main body of Subparagraph 10 of Article 41; Subparagraph 1 of Article 42; main body of Article 43) 2. Oil-water separation device (main body of Subparagraph 10 of Article 41; Subparagraph 1 of Article 42; main body of Article 43) 3. Natural lighting, lighting, and ventilation equipment (main body of Subparagraph of Article 41; Subparagraph 1 of Article 42; main body of Article 43) 4. Exhaust equipment (main body of Subparagraph 10 of Article 41; Subparagraph 1 of Article 42; main body of Article 43) 5. Safety devices and ventilation pipes (Subparagraph 7 of Article 41; Subparagraph 1 of Article 42; main body of Article 43) 6. Automatic indication of storage capacity (Subparagraph 8 of Article 41; Subparagraph 1 of Article 42; main body of Article 43) 7. Inlet (including leakage-proof, pipe valve or lid, grounding devices that effectively removes static electricity charge) (Subparagraph 9 of Article 41; Subparagraph 1 of Article 42; main body of Article 43) 8. Leak detection pipes or leakage-detection equipment of equivalent performance (Subparagraph 13 of Article 41; main body of Article 43) 9. Pumping equipment fixed on a solid foundation (main body of Subparagraph 10 of Article 41; Subparagraph 1 of Article 42; main body of Article 43) 10. Corrosion-proof pipes on the ground (Subparagraph 11 of Article 41; Subparagraph 1 of Article 42; main body of Article 43) 11. Bulletin board (Article 19)
(8) The flammable pressurized gas storage place	<ol style="list-style-type: none"> 1. Warning signs, explosion-proof emergency lighting system (Subparagraph 1 of Article 70) 2. Automatic gas leak alarm system (Subparagraph 2 of Article 70) 3. Effective ventilation equipment that prevents gas accumulation (Subparagraph 3 of Article 70) 4. Passage area (Subparagraph 7 of Article 70) 5. Lightning arrestor or a grounding means of equivalent protection (Subparagraph 9 of Article 70)
(9) The place for process of flammable pressurized gases	<ol style="list-style-type: none"> 1. Ventilation equipment (Item 1 of Subparagraph 1, main body of Subparagraph 2, and main body of Subparagraph 3 of Paragraph 1 of Article 73-1) 2. Warning signs of “No Open Flame” (Item 2 of Subparagraph 1, main body of Subparagraph 2, and main body of Subparagraph 3 of Paragraph 1 of Article 73-1) 3. Fixing measures to prevent overturning (Item 4 of Subparagraph 1, main body of Subparagraph 2, and main body of Subparagraph 3 of Paragraph 1 of Article 73-1) 4. Gas hoses and anti-shedding devices (Item 6 of Subparagraph 1, main body of Subparagraph 2, and main body of Subparagraph 3 of Paragraph 1 of Article 73-1) 5. Distance between the container and the fire appliance (Subparagraph 2 and

	<p>main body of Subparagraph 3 of Paragraph 1 of Article 73-1)</p> <ol style="list-style-type: none"> 6. Gas leak alarm device (Item 4 of Subparagraph 1, and Item 2 of Subparagraph 2 of Article 69; Item 7 of Subparagraph 1, main body of Subparagraph 2, and main body of Subparagraph 3 of Paragraph 1 of Article 73-1) 7. Automatic emergency shutoff device (Item 3 of Subparagraph 2 of Article 69; item 1 of Subparagraph 3 of Paragraph 1 of Article 73-1) 8. Barriers, container cabinets or fences (including top cover and the distance from the ground) (Item 2 of Subparagraph 3 of Paragraph 1 of Article 73-1) 9. Bulletin board (Item 3 of Subparagraph 3 of Paragraph 1 of Article 73-1)
<ol style="list-style-type: none"> 1. 2. 	<p>Places for the manufacturing, storage, and processing of public hazardous materials and flammable pressurized gas indicated in Article 79 and Article 79-1 shall carry out improvements according to the above-mentioned improvement items based on the type of construction that the said place has adopted. The location, construction or equipment not listed above are exempted from the specified improvements.</p> <p>Measures of equivalent performance may be applied if there is substantial difficulty in carrying out the above-mentioned improvement, and the alternative method shall be approved by the municipal or county (city) authority.</p>