

**GENERAL INDEX  
TO  
STANDARDS AND STANDARD DRAWINGS**

**SEVENTH EDITION**

**JULY 2013**

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## **INTRODUCTION**

Iranian Petroleum standards (IPS) have been prepared on the basis of the recognized standards, scientific publications, technical documents, accumulated knowledge and experiences in petroleum industries at national and international levels.

The history of the standards in oil industries goes back to early 70's. In those years, the first collection of standards were, equipment standards for Abadan Refinery and onshore installations, in south of Iran.

Later, gradually oil industry got bigger, and bigger, and gas and petrochemical industries were developed. These industries created a collection of standards for their own use and naturally there were no harmony between the standards prepared by the new developed industries with that of the oil industry.

In order to unify all the standards in the whole ministry of petroleum, an organization called department of research and standards was set up which operates under deputy minister in engineering and local manufacturing.

This organization has issued uniform standards for the whole hydrocarbon industries called Iranian Petroleum Standards (IPS) since 1989.

Iranian Petroleum Standards are periodically reviewed and amended by the relevant technical committees in order to incorporate the views and the comments made by oil, gas and petrochemical experts.

These Standards have been prepared in 12 technical branches, each in 5 topic groups of Engineering (E), Material (M) Construction (C), Periodical Inspection (I) and general (G). By insertion of General Machinery into General in 2005, these Standards have been prepared in 11 technical branches.

In addition to the above mentioned standard literatures, standard drawings have also been prepared in 7 topic groups.

These publications may not cover every requirement or diversity of condition at each locality, but the system is sufficiently flexible to allow individual operating companies to exercise their own judgment for their own situation.

So far, 372 text for standards plus 184 standard drawings have been prepared.

All these documents are transferred on to CD under Windows operating system and will be available upon request.

At present all these Standards are in the process of being updated by the relevant technical committees.

Research and Standards Organization welcomes any suggestion and/or comment from technical bodies and experts for improvement of the quality of these Standards.

Comments and/or recommendations, will be studied and evaluated by the relevant technical committees, and will be incorporated in the next revision of the concerned standards.

Comments shall be sent in writing to the director of Research and standards Organization.

**SCOPE**

This INDEX lists the IPS Standards and Standard Drawings on the date of issue of this document. They are listed by subject. 372 standards and 185 standard drawings are separately listed. updates, of this INDEX is issued yearly to all registered recipients and is available otherwise on request.

In the subject index, in addition to the standard title, the number of pages and the STATUS of each standard are given. The position of any standard, if amended, revised or withdrawn will be shown in the subject index.

**STANDARD HIGH COUNCIL (SHC)**

The Standard High Council is the senior policy making body of which the members are as follow:-

- Deputy Minister in Engineering and local manufacturing
- Deputy Minister in Trade Affairs
- Production Manager in On-Shore Fields
- Managing Director of Investment Development Company of NPC
- Manager of Engineering & Projects of NIGC

The SHC meets at least once a year for setting the philosophy and directing the activities of the Organization. Additionally SHC gives final endorsement for introducing the new standards or withdrawal of the old standards.

The SHC do not specifically approve the technical content. This is the responsibility of the Standards Organization. It is the responsibility of the user of a document to ensure that it is appropriate for a particular application.

**TECHNICAL COMMITTEE**

The Iranian Petroleum Standards are developed and maintained by a number of technical committees. Each technical committee is composed of at least six authorized specialists nominated by eleven subsidiary companies and divisions of Ministry of Petroleum. There are at present 11 such committees each representing one of the 11 fields or disciplines for which Standards are prepared.

**FEEDBACK**

Organizations and individuals who use the IPS Standards are encouraged and invited to contact Standard Organization as for any questions, suggestions and comments concerning the standards, which could lead to their improvement and updating.

Such feedbacks will assist materially in maintaining and enhancing the value of the document to users.

All feedback is kept on the document record file by Standard Organization for formal revision. The CUSTODIAN will review this file, and if the queries and feedbacks require urgent consideration, he will arrange for preparation of an AMENDMENT to the standard.

Feedback should be made in writing and addressed to the director of Standard Organization.

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### **REQUIRMENT FOR REVISING IPS**

The various reason for which an IPS may require amendment/revision are described bellow:-

- Systematic review
- Change of regulations
- Change of national and/or international standard
- Findings of technical audits
- Change in Technology
- Commercial reason
- Other changes

### **SYSTEMATIC REVIEW**

In accordance with the IPS directives every standard shall subject to systematic review by the relevant T.C. not more than 5 years after publication. To determine whether it should be confirmed, amended, revised, converted to another form of deliverable, or withdrawn.

### **AMENDMENT**

During formal revisions, if a standard requires urgent consideration, the matter will be notified to the relevant TECHNICAL COMMITTEE. Should the query be approved by the technical committee, the custodian will prepare an amendment to the document and make it rapidly dispatched to all registered holders.

### **WITHDRAWAL**

Withdrawal of an IPS Standard happens when the standard is out-of-date and/or no longer needed.

Following the approval for withdrawal, the registered holders of IPS will be notified by a circular, to which attention will be drawn to the withdrawn standards and its replacements.

When applicable, the replaced standards will have the same IPS number as the withdrawn standard. The revision number will be shown in parenthesis.

The withdrawn Standards will not be supported by Research & Standard org, and continuing the use of these Standards will be at local management discretion.

## **UP DATING**

The IPS Standards are in the process of being updated by the Standards and Research Organization through technical committees

.Standards and Research Organization welcomes any suggestions and comments concerning these standards from technical bodies or experts for improvement of technical quality of these Standards.

Comments and/or recommendations are evaluated in the relevant technical committee, and will be considered in the next edition, upon approval.

Comments should be sent in writing addressed to the Standards and Research Organization Director.

## **IPS STRUCTURE**

The Iranian Petroleum Standard have been prepared in 6 topic groups of the following:

- C Construction and Installation
- D Drawing
- E Engineering and Design
- G General (standards containing more than one type)
- I Inspection
- M Material and Equipment

To the field of activities as hereunder follows:

- AR Heating, Ventilation, Air Conditioning Cooling & Refrigeration
- CE Civil
- EL Electrical
- GN General
- IN Instrument
- ME Fixed Mechanical Equipment
- PI Piping & Pipelines

PM Process Machineries  
PR Process & Chemical  
SF Safety, Fire Fighting & Environmental Pollution Control  
TP Technical Protection

## **STANDARD FORMS**

The IPS Standards are prepared in both printed form and electronic form. The printed form of the standards are available in a covered booklet in A4 size, which shows IPS Number with revision number in parenthesis and Issue date on the top right corner and Title of Standard at the center of the front cover.

The electronic forms of standards and standard drawings are available on CD, prepared by Adobe Acrobat 7.0 under Windows.

All above documents are packed on a CD usable under windows XP or higher, available upon request.

## **INDEXES**

The main section of this catalog is the list of standards and standard drawings classified by subject. The aim of this approach is to provide optimum possibilities for the selection of standards interrelated by their subjects.

Both indexes are updated regularly by including new information and will be published yearly. The edition date, indicated in this index is the date of the latest edition of each standard, which may be an original or a revised standard.



**THE LIST OF STANDARDS CLASSIFIED BY  
SUBJECT**

Heating, Ventilation, Air Conditioning Cooling & Refrigeration

<p><b>IPS-C-AR-110 (1)</b>      <b>Dec. 2009</b></p> <p>Construction Standard for Installation, Testing, Adjusting and Commissioning of HVAC&amp;R Systems</p> <p><b>Bilingual</b></p> <p>Pages: 45</p>
<p><b>IPS-E-AR-100 (1)</b>      <b>July 2009</b></p> <p>Engineering Standard for Building Heating System</p> <p><b>Bilingual</b></p> <p>Pages: 42</p>
<p><b>IPS-E-AR-120 (1)</b>      <b>Nov. 2009</b></p> <p>Engineering Standard for Building Air Conditioning Systems</p> <p><b>Bilingual</b></p> <p>Pages: 87</p>
<p><b>IPS-E-AR-130 (0)</b>      <b>Jan. 1996</b></p> <p>Engineering Standard for Humidification &amp; Dehumidification System</p> <p>Amendment No. 1      Dec. 2002 Amendment No. 2      June 2005</p> <p>Pages: 31</p>
<p><b>IPS-E-AR-160 (0)</b>      <b>July 1995</b></p> <p>Engineering Standard for Venting, Ventilation and Pressurizing System</p> <p>Amendment No. 1      Feb. 2000 Amendment No. 2      July 2004</p> <p>Pages: 67</p>
<p><b>IPS-E-AR-180 (0)</b>      <b>July 1994</b></p> <p>Engineering Standard for Cold Stores and Ice Plants</p> <p>Amendment No. 1      Dec. 1998 Amendment No. 2      Feb. 2003 Amendment No. 3      Aug. 2004 Amendment No. 4      Oct. 2012</p> <p>Pages: 70</p>

<p><b>IPS-M-AR-105 (1)</b>      <b>July 2009</b></p> <p>Material and Equipment Standard for Boilers &amp; Burners</p> <p><b>Bilingual</b></p> <p>Pages: 40</p>
<p><b>IPS-M-AR-125 (1)</b>      <b>July 2009</b></p> <p>Material and Equipment Standard for Packaged Air Conditioners</p> <p><b>Bilingual</b></p> <p>Pages: 31</p>
<p><b>IPS-M-AR-130 (0)</b>      <b>Mar. 1996</b></p> <p>Material and Equipment Standard for Humidification &amp; Dehumidification Unit &amp; System</p> <p>Amendment No. 1      May 2000 Amendment No. 2      Aug. 2005</p> <p>Pages: 25</p>
<p><b>IPS-M-AR-145 (1)</b>      <b>Jan. 2010</b></p> <p>Material and Equipment Standard for Field Erected Air Conditioning Systems</p> <p><b>Bilingual</b></p> <p>Pages: 64</p>
<p><b>IPS-M-AR-185 (0)</b>      <b>July 1994</b></p> <p>Material and Equipment Standard for Field Erected Refrigeration System and Ice Plant</p> <p>Amendment No. 1      Jan. 1999 Amendment No. 2      May 2003 Amendment No. 3      Jan. 2012</p> <p>Pages: 47</p>
<p><b>IPS-M-AR-205 (0)</b>      <b>Oct. 1996</b></p> <p>Material and Equipment Standard for Fans, Filters &amp; Air Distribution Units &amp; Systems</p> <p>Amendment No. 1      July 2001 Amendment No. 2      Aug. 2006 Amendment No. 3      Sep. 2012</p> <p>Pages: 49</p>

Heating, Ventilation, Air Conditioning Cooling & Refrigeration

**IPS-M-AR-215 (0) July 1995**

Material Standard for Pipes, Valves and Fittings

Amendment No. 1 Oct. 1999  
 Amendment No. 2 Oct. 2004  
 Amendment No. 3 Jan. 2012

Pages: 20

**IPS-M-AR-225 (1) Jan. 2010**

Material and Equipment Standard for General HVAC&R Equipment

**Bilingual**

Pages: 111

**IPS-M-AR-235 (0) Oct. 1996**

Material and Equipment Standard for Insulation of HVAC&R Field

Amendment No. 1 Aug. 2002  
 Amendment No. 2 Dec. 2006

Pages: 29

**IPS-M-AR-245 (0) Oct. 1996**

Material and Equipment Standard for Room Air Conditioners (Window and Thru-the-Wall Type)

Amendment No. 1 Dec. 2001  
 Amendment No. 2 Sep. 2005

Pages: 17

**IPS-M-AR-255 (0) Jan. 2007**

Material Standard for Thermoplastics Pipings for Hot and Cold Water in Buirdings

Pages: 10

Civil

<p><b>IPS-C-CE-112 (0) Dec. 1994</b></p> <p>Construction Standard for Earthworks</p> <p>Amendment No. 1 Nov. 1997 Amendment No. 2 May 2004</p> <p>Pages: 32</p>
<p><b>IPS-C-CE-132 (1) July 2009</b></p> <p>Construction Standard for Foundations, Piles and Retaining Walls</p> <p><b>Bilingual</b></p> <p>Pages: 17</p>
<p><b>IPS-C-CE-200 (1) Feb. 2009</b></p> <p>Construction Standard for Concrete Structures</p> <p><b>Bilingual</b></p> <p>Pages: 55</p>
<p><b>IPS-C-CE-210 (1) Feb. 2009</b></p> <p>Construction Standard for Steel Structures</p> <p><b>Bilingual</b></p> <p>Pages: 25</p>
<p><b>IPS-C-CE-260 (0) Dec. 1997</b></p> <p>Construction Standard for Fireproofing</p> <p>Amendment No. 1 July 2003 Amendment No. 2 Jan. 2005</p> <p>Pages: 12</p>
<p><b>IPS-C-CE-342 (0) July 1997</b></p> <p>Construction Standard for Water Supply &amp; Sewerage Systems</p> <p>Amendment No. 1 May 2003 Amendment No. 2 May 2006</p> <p>Pages: 34</p>

<p><b>IPS-C-CE-355 (0) Oct. 1996</b></p> <p>Standard for Demolition</p> <p>Amendment No.1 May 2001 Amendment No. 2 June 2006</p> <p>Pages: 17</p>
<p><b>IPS-E-CE-110 (0) Dec. 1994</b></p> <p>Engineering Standard for Soil Engineering</p> <p>Amendment No. 1 May 1998 Amendment No. 2 July 2004</p> <p>Pages: 27</p>
<p><b>IPS-E-CE-120 (1) May 2009</b></p> <p>Engineering Standard for Foundations</p> <p><b>Bilingual</b></p> <p>Pages: 47</p>
<p><b>IPS-E-CE-130 (1) June 2009</b></p> <p>Engineering Standard for Piles</p> <p><b>Bilingual</b></p> <p>Pages: 40</p>
<p><b>IPS-E-CE-140 (1) July 2009</b></p> <p>Engineering Standard for Retaining Walls &amp; Slope Protection</p> <p><b>Bilingual</b></p> <p>Pages: 45</p>
<p><b>IPS-E-CE-160 (0) Mar. 1996</b></p> <p>Engineering Standard for Geometric Design of Roads and Streets</p> <p>Amendment No. 1 Dec. 2000 Amendment No. 2 July 2006</p> <p>Pages: 11</p>

Civil

<p><b>IPS-E-CE-200 (1)</b>      <b>Nov. 2008</b></p> <p>Engineering Standard for Concrete Structures</p> <p><b>Bilingual</b></p> <p>Pages: 69</p>
<p><b>IPS-E-CE-210 (1)</b>      <b>Feb. 2009</b></p> <p>Engineering Standard for Steel Structures</p> <p><b>Bilingual</b></p> <p>Pages: 16</p>
<p><b>IPS-E-CE-260 (0)</b>      <b>May 1993</b></p> <p>Engineering Standard for Fireproofing</p> <p>Amendment No. 1      Aug. 1998 Amendment No. 2      Dec. 2005</p> <p>Pages: 22</p>
<p><b>IPS-E-CE-340 (0)</b>      <b>Jan. 1996</b></p> <p>Engineering Standard for Water Resources and Distribution Systems</p> <p>Amendment No. 1      Sep. 1999 Amendment No. 2      Aug. 2006</p> <p>Pages: 19</p>
<p><b>IPS-E-CE-360 (0)</b>      <b>Jan. 1996</b></p> <p>Engineering Standard for Building Piping (Hot and Cold)</p> <p>Amendment No. 1      Jan. 2003 Amendment No. 2      May 2012</p> <p>Pages: 17</p>
<p><b>IPS-E-CE-380 (0)</b>      <b>Aug. 1993</b></p> <p>Engineering Standard for Sewerage and Surface Water Drainage System</p> <p>Amendment No. 1      July 1998 Amendment No. 2      Oct. 2006</p> <p>Pages: 56</p>

<p><b>IPS-E-CE-390 (0)</b>      <b>Jan. 1995</b></p> <p>Engineering Standard for Rain &amp; Foul Water Drainage of Buildings</p> <p>Amendment No. 1      Oct. 1999 Amendment No. 2      Dec. 2006</p> <p>Pages: 49</p>
<p><b>IPS-E-CE-400 (0)</b>      <b>May 1997</b></p> <p>Engineering Standard for Sanitary Sewage Treatment</p> <p>Amendment No. 1      Dec. 2003 Amendment No. 2      July 2012</p> <p>Pages: 10</p>
<p><b>IPS-E-CE-500 (1)</b>      <b>Jan. 2009</b></p> <p>Engineering Standard for Loads</p> <p><b>Bilingual</b></p> <p>Pages: 108</p>
<p><b>IPS-G-CE-170 (0)</b>      <b>July 1997</b></p> <p>Engineering and Construction Standard for Culvert Bridges and Related Structures</p> <p>Amendment No.1      June 2002 Amendment No. 2      Sep. 2012</p> <p>Pages: 9</p>
<p><b>IPS-G-CE-182 (0)</b>      <b>Oct. 1996</b></p> <p>Engineering and Construction Standard for Road Surfacing &amp; Pavements</p> <p>Amendment No.1      Nov. 2000 Amendment No. 2      Dec. 2011</p> <p>Pages: 16</p>
<p><b>IPS-G-CE-250 (0)</b>      <b>May 1997</b></p> <p>Engineering, Construction and Material Standard for Chimneys and Stacks</p> <p>Amendment No. 1      Oct. 2003</p> <p>Pages: 19</p>

**Civil**

<p><b>IPS-G-CE-270 (0)      May 1997</b></p> <p>Engineering, Construction and Material Standard for Fencing &amp; Gates</p> <p>Amendment No. 1      July 2002 Amendment No. 2      Dec. 2012</p> <p>Pages: 8</p>
<p><b>IPS-G-CE-470 (1)      Feb. 2012</b></p> <p>Engineering and Construction Standard for Onshore Facilities</p> <p>Pages: 23</p>
<p><b>IPS-G-CE-480 (0)      Dec. 1997</b></p> <p>Engineering and Construction Standard for Offshore Installations</p> <p>Amendment No. 1      Jan. 2004</p> <p>Pages: 23</p>
<p><b>IPS-M-CE-105 (2)      Nov. 2008</b></p> <p>Material Standard for Building Materials</p> <p><b>Bilingual</b></p> <p>Pages: 132</p>
<p><b>IPS-M-CE-345 (0)      Mar. 1996</b></p> <p>Material Standard for Water Supply &amp; Sewerage Equipment</p> <p>Amendment No. 1      July 2001 Amendment No. 2      Oct. 2012</p> <p>Pages: 16</p>


Electrical

<p><b>IPS-C-EL-115 (1)</b>      <b>July 2009</b></p> <p>Construction Standard for Electrical Installation</p> <p><b>Bilingual</b></p> <p>Pages: 19</p>	<p><b>IPS-M-EL-131 (2)</b>      <b>Nov. 2009</b></p> <p>Material and Equipment Standard for Low Voltage Induction Motors</p> <p><b>Bilingual</b></p> <p>Pages: 28</p>
<p><b>IPS-E-EL-100 (1)</b>      <b>Feb. 2012</b></p> <p>Engineering Standard for Electrical System Design (Industrial &amp; Non-Industrial)</p> <p>Pages: 137</p>	<p><b>IPS-M-EL-132 (2)</b>      <b>Dec. 2009</b></p> <p>Material and Equipment Standard for Medium and High Voltage Induction Motors</p> <p><b>Bilingual</b></p> <p>Pages: 30</p>
<p><b>IPS-E-EL-110 (1)</b>      <b>Mar. 2012</b></p> <p>Engineering Standard for Hazardous Area</p> <p>Pages: 101</p>	<p><b>IPS-M-EL-136 (0)</b>      <b>May 1993</b></p> <p>Material and Equipment Standard for Rotating Electrical Machines Direct Current Motors</p> <p>Amendment No. 1      May 2012</p> <p>Pages: 13</p>
<p><b>IPS-E-EL-160 (1)</b>      <b>Jan. 2010</b></p> <p>Engineering Standard for Overhead Transmission &amp; Distribution Lines</p> <p><b>Bilingual</b></p> <p>Pages: 34</p>	<p><b>IPS-M-EL-138 (1)</b>      <b>Mar. 2013</b></p> <p>Material and Equipment Standard for Synchronous Generators</p> <p>Pages: 35</p>
<p><b>IPS-I-EL-215 (1)</b>      <b>May 2009</b></p> <p>Inspection Standard for Potentially Explosive Atmospheres (Hazardous Area)</p> <p><b>Bilingual</b></p> <p>Pages: 11</p>	<p><b>IPS-M-EL-143 (2)</b>      <b>Mar. 2009</b></p> <p>Material and Equipment Standard for Low Voltage Switchgear and Controlgear</p> <p><b>Bilingual</b></p> <p>Pages: 36</p>
<p><b>IPS-I-EL-217 (1)</b>      <b>Mar. 2012</b></p> <p>Inspection Standard for Precommissioning Electrical Tests</p> <p>Pages: 74</p>	<p><b>IPS-M-EL-144 (1)</b>      <b>June 2004</b></p> <p>Material and Equipment Standard for Medium and High Voltage Switchgear and Controlgear</p> <p>Pages: 21</p>

Electrical

<p><b>IPS-M-EL-151 (1)</b>      <b>Dec. 2005</b></p> <p>Material and Equipment Standard for Dry Type Power Transformers</p> <p>Pages: 11</p>	<p><b>IPS-M-EL-181 (2)</b>      <b>Jan. 2010</b></p> <p>Material and Equipment Standard for Power Factor Improvement Capacitor</p> <p><b>Bilingual</b></p> <p>Pages: 16</p>
<p><b>IPS-M-EL-152 (2)</b>      <b>Oct. 2009</b></p> <p>Material and Equipment Standard for Oil Immersed Power Transformers</p> <p><b>Bilingual</b></p> <p>Pages: 28</p>	<p><b>IPS-M-EL-190 (1)</b>      <b>July 2009</b></p> <p>Material Standard for Electrical Heat Tracing</p> <p><b>Bilingual</b></p> <p>Pages: 15</p>
<p><b>IPS-M-EL-155 (1)</b>      <b>June 2009</b></p> <p>Material and Equipment Standard for Transformer Rectifiers for Cathodic Protection</p> <p><b>Bilingual</b></p> <p>Pages: 23</p>	<p><b>IPS-M-EL-220 (0)</b>      <b>May 1993</b></p> <p>Material and Equipment Standard for Current Limiting Reactors</p> <p>Amendment No. 1      July 2012</p> <p>Pages: 18</p>
<p><b>IPS-M-EL-161 (1)</b>      <b>Dec. 2007</b></p> <p>Material and Equipment Standard for General Electrical Items</p> <p>Pages: 14</p>	<p><b>IPS-M-EL-230 (0)</b>      <b>Nov. 1993</b></p> <p>Material and Equipment Standard for Electrical Lighting Columns</p> <p>Amendment No. 1      May 2012</p> <p>Pages: 16</p>
<p><b>IPS-M-EL-174 (2)</b>      <b>Nov. 2008</b></p> <p>Material and Equipment Standard for Battery and Battery Charger (DC Power supply)</p> <p><b>Bilingual</b></p> <p>Pages: 17</p>	<p><b>IPS-M-EL-240 (0)</b>      <b>May 1993</b></p> <p>Material and Equipment Standard for Low Voltage Industrial and Flameproof a.c. Switch-Fuse Assembly</p> <p>Pages: 42</p>
<p><b>IPS-M-EL-176 (2)</b>      <b>Apr. 2009</b></p> <p>Material and Equipment Standard for Uninterruptible Power Supply System (UPS)</p> <p><b>Bilingual</b></p> <p>Pages: 28</p>	<p><b>IPS-M-EL-271 (1)</b>      <b>July 2003</b></p> <p>Material Standard for Low Voltage Cables &amp; Wires</p> <p>Pages: 10</p>



Electrical

<p><b>IPS-M-EL-272 (1)</b>      <b>July 2003</b></p> <p>Material Standard for Medium and High Voltage Power Cables</p> <p>Pages: 7</p>
<p><b>IPS-M-EL-273 (1)</b>      <b>July 2003</b></p> <p>Material Standard for SubMarine Power Cables with Inherent Optical Fibers</p> <p>Pages: 10</p>


General

<p><b>IPS-E-GN-000 (7)</b>      <b>July 2013</b></p> <p>General Index to Standards and Standard Drawings</p> <p>Pages: 89</p>	<p><b>IPS-I-GN-335 (1)</b>      <b>Dec. 2009</b></p> <p>Periodical inspection &amp; Testing of Elevators</p> <p><b>Bilingual</b></p> <p>Pages: 152</p>
<p><b>IPS-E-GN-100 (1)</b>      <b>Oct. 2011</b></p> <p>Engineering Standard for Units</p> <p>Pages: 67</p>	<p><b>IPS-I-GN-350 (0)</b>      <b>Dec. 1997</b></p> <p>Periodical inspection &amp; Testing of Cranes</p> <p>Amendment No. 1      Oct. 2012</p> <p>Pages: 22</p>
<p><b>IPS-E-GN-120 (1)</b>      <b>Jan. 2012</b></p> <p>Engineering Standard for Drafting</p> <p>Pages: 45</p>	<p><b>IPS-M-GN-110 (0)</b>      <b>Dec. 1997</b></p> <p>Material and Equipment Standard for Fork Lift Truck</p> <p>Amendment No. 1      June 2012</p> <p>Pages: 16</p>
<p><b>IPS-G-GN-180 (2)</b>      <b>Jan. 2009</b></p> <p>General Standard for Gas Cylinders</p> <p><b>Bilingual</b></p> <p>Pages: 30</p>	<p><b>IPS-M-GN-130 (2)</b>      <b>Nov. 2008</b></p> <p>Material and Equipment Standard for Metric Type Fasteners (Screws , Bolts, Studs , Nuts, and Washers)</p> <p><b>Bilingual</b></p> <p>Pages: 105</p>
<p><b>IPS-G-GN-210 (0)</b>      <b>May 1997</b></p> <p>General Standard for Packing and Packages</p> <p>Amendment No. 1      Oct. 2003</p> <p>Pages: 21</p>	<p><b>IPS-M-GN-140 (1)</b>      <b>July 2004</b></p> <p>Material and Equipment Standard for Bearings</p> <p>Pages: 23</p>
<p><b>IPS-G-GN-370 (1)</b>      <b>June 2004</b></p> <p>General Standard for Electric and Hydraulic Elevators</p> <p>Pages: 57</p>	<p><b>IPS-M-GN-150 (1)</b>      <b>May 2009</b></p> <p>Material Standard for Steel Wire Ropes for General Services</p> <p><b>Bilingual</b></p> <p>Pages: 37</p>

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<p><b>IPS-M-GN-160 (1)</b>      <b>Feb. 2005</b></p> <p>Material and Equipment Standard for Hooks, Shackles, Eyes Bolts and chains</p> <p>Pages: 14</p>
<p><b>IPS-M-GN-170 (2)</b>      <b>Dec. 2008</b></p> <p>Material Standard for Laboratory Glassware &amp; Related Apparatus</p> <p><b>Bilingual</b></p> <p>Pages: 82</p>
<p><b>IPS-M-GN-210 (1)</b>      <b>Mar. 2009</b></p> <p>Material and Equipment Standard for Conveyors</p> <p><b>Bilingual</b></p> <p>Pages: 109</p>
<p><b>IPS-M-GN-240 (0)</b>      <b>July 1997</b></p> <p>Material Standard for Workshop and Wall Supported Jib Cranes and Chain Hoists</p> <p>Amendment No. 1      Sep. 2003</p> <p>Pages: 8</p>
<p><b>IPS-M-GN-260 (0)</b>      <b>July 1997</b></p> <p>Material and Equipment Standard for Pallets</p> <p>Pages: 29</p>
<p><b>IPS-M-GN-330 (0)</b>      <b>July 1995</b></p> <p>Material and Equipment Standard for Offshore Cranes</p> <p>Amendment No. 1      Sep. 2012</p> <p>Pages: 18</p>

<p><b>IPS-M-GN-340 (0)</b>      <b>July 1997</b></p> <p>Material and Equipment Standard for Mobile Cranes-Power Driven</p> <p>Pages: 52</p>
<p><b>IPS-M-GN-350 (2)</b>      <b>Nov. 2008</b></p> <p>Material and Equipment Standard for Overhead and Gantry Cranes (Overhead Traveling and Portal Bridge Cranes)</p> <p><b>Bilingual</b></p> <p>Pages: 26</p>
<p><b>IPS-M-GN-360 (1)</b>      <b>July 2009</b></p> <p>Material and Equipment Standard for General Use Hoses</p> <p><b>Bilingual</b></p> <p>Pages: 68</p>
<p><b>IPS-M-GN-365 (2)</b>      <b>Jan. 2009</b></p> <p>Material and Equipment Standard for Mobile Air Compressors</p> <p><b>Bilingual</b></p> <p>Pages: 42</p>
<p><b>IPS-M-GN-375 (1)</b>      <b>July 2009</b></p> <p>Material and Equipment Standard for Arc Welding Equipment and Accessories</p> <p><b>Bilingual</b></p> <p>Pages: 49</p>
<p><b>IPS-M-GN-450 (1)</b>      <b>July 2009</b></p> <p>Material and Equipment Standard for Abrasive Air Blasting Machine</p> <p><b>Bilingual</b></p> <p>Pages: 16</p>

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<p><b>IPS-M-GN-470 (0)</b>      <b>May 1997</b></p> <p>Material and Equipment Standard for Water Blasting Equipment</p> <p>Amendment No. 1      Aug. 2003</p> <p>Pages: 20</p>


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<p><b>IPS-C-IN-100 (1)</b>      <b>Jan. 2005</b></p> <p>Construction and Installation Standard for General Instruments Field Inspection, Calibration &amp; Testing of Instrument and Instrument System</p> <p>Pages: 32</p>	<p><b>IPS-C-IN-190 (1)</b>      <b>Mar. 2010</b></p> <p>Installation and Construction Standard for Transmission Systems</p> <p><b>Bilingual</b></p> <p>Pages: 51</p>
<p><b>IPS-C-IN-110 (1)</b>      <b>Sep. 2008</b></p> <p>Construction Standard for Pressure Instruments</p> <p><b>Bilingual</b></p> <p>Pages: 9</p>	<p><b>IPS-C-IN-240 (1)</b>      <b>Jan. 2005</b></p> <p>Construction Standard for Measurement of Liquid Hydrocarbons Custody Transfer</p> <p>Pages: 25</p>
<p><b>IPS-C-IN-120 (1)</b>      <b>Mar. 2009</b></p> <p>Construction and Installation Standard for Temperature Instruments</p> <p><b>Bilingual</b></p> <p>Pages: 27</p>	<p><b>IPS-E-IN-100 (1)</b>      <b>Jan. 2005</b></p> <p>Engineering Standard for General Instrumentation</p> <p>Pages: 83</p>
<p><b>IPS-C-IN-130 (0)</b>      <b>July 1994</b></p> <p>Construction and Installation Standard for Flow Instruments</p> <p>Amendment No. 1      Oct. 1997 Amendment No. 2      Jan. 2013</p> <p>Pages: 48</p>	<p><b>IPS-E-IN-105 (1)</b>      <b>Jan. 2012</b></p> <p>Engineering Standard for Instrument workshop, layouts, test and calibration tools</p> <p>Pages: 28</p>
<p><b>IPS-C-IN-140 (0)</b>      <b>July 1994</b></p> <p>Construction and Installation Standard for Level Instruments</p> <p>Amendment No. 1      Mar. 1999 Amendment No. 2      Mar. 2013</p> <p>Pages: 35</p>	<p><b>IPS-E-IN-110 (1)</b>      <b>July 2009</b></p> <p>Engineering Standard for Pressure Instruments</p> <p><b>Bilingual</b></p> <p>Pages: 24</p>
<p><b>IPS-C-IN-160 (1)</b>      <b>Aug. 2003</b></p> <p>Construction and Installation Standard for Control Valves</p> <p>Pages: 24</p>	<p><b>IPS-E-IN-120 (1)</b>      <b>May 2010</b></p> <p>Engineering Standard for Temperature Instruments</p> <p><b>Bilingual</b></p> <p>Pages: 64</p>

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<p><b>IPS-E-IN-130 (1)</b>      <b>Jan. 2013</b></p> <p>Engineering Standard for Flow Instruments</p> <p>Pages: 82</p>	<p><b>IPS-G-IN-200 (1)</b>      <b>June 2003</b></p> <p>General Standard for Instruments air system</p> <p>Pages: 58</p>
<p><b>IPS-E-IN-140 (1)</b>      <b>Feb. 2013</b></p> <p>Engineering Standard for Level Instruments</p> <p>Pages: 48</p>	<p><b>IPS-G-IN-210 (1)</b>      <b>Apr. 2010</b></p> <p>General Standard for Instrument Protection</p> <p><b>Bilingual</b></p> <p>Pages: 45</p>
<p><b>IPS-E-IN-160 (1)</b>      <b>Aug. 2003</b></p> <p>Engineering Standard for Control Valves</p> <p>Pages: 95</p>	<p><b>IPS-G-IN-220 (1)</b>      <b>Apr. 2010</b></p> <p>Engineering and Installation Standard for Control Centers</p> <p><b>Bilingual</b></p> <p>Pages: 46</p>
<p><b>IPS-E-IN-180 (0)</b>      <b>Oct. 1996</b></p> <p>Engineering Standard for Instruments Electrical Power Supply &amp; Distribution Systems</p> <p>Amendment No. 1      Aug. 2005</p> <p>Pages: 14</p>	<p><b>IPS-G-IN-230 (1)</b>      <b>Nov. 2012</b></p> <p>General Standard for On-Line Analyzer</p> <p>Pages: 158</p>
<p><b>IPS-E-IN-190 (2)</b>      <b>Jan. 2010</b></p> <p>Engineering Standard for Transmission Systems</p> <p><b>Bilingual</b></p> <p>Pages: 45</p>	<p><b>IPS-G-IN-250 (0)</b>      <b>Oct 1996</b></p> <p>Engineering and Construction Standard for Distributed Control System (DCS)</p> <p>Amendment No. 1      Nov. 2002</p> <p>Pages: 30</p>
<p><b>IPS-E-IN-240 (2)</b>      <b>Nov. 2012</b></p> <p>Engineering Standard for Measurement of Liquid Hydrocarbons (Custody Transfer)</p> <p>Pages: 62</p>	<p><b>IPS-G-IN-260 (1)</b>      <b>May 2006</b></p> <p>Engineering and Installation Standard for Indicating Lights, Alarms &amp; Protective Systems</p> <p>Pages: 23</p>

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<p><b>IPS-G-IN-270 (2)</b>      <b>Apr. 2010</b></p> <p>General Standard for Instruments of Fire and Gas Detection Equipment</p> <p><b>Bilingual</b></p> <p>Pages: 30</p>	<p><b>IPS-M-IN-120 (1)</b>      <b>May 2010</b></p> <p>Material and Equipment Standard for Temperature Instruments</p> <p><b>Bilingual</b></p> <p>Pages: 41</p>
<p><b>IPS-G-IN-290 (0)</b>      <b>Oct. 1996</b></p> <p>Engineering and Construction Standard for Programmable Logic Controllers (PLC)</p> <p>Amendment No. 1      Mar. 2002</p> <p>Pages: 22</p>	<p><b>IPS-M-IN-130 (1)</b>      <b>Jan. 2013</b></p> <p>Material and Equipment Standard for Flow Instruments</p> <p>Pages: 45</p>
<p><b>IPS-G-IN-300 (1)</b>      <b>Sep. 2006</b></p> <p>Tank Gauging Devices for Petroleum and Petroleum Product</p> <p>Pages: 24</p>	<p><b>IPS-M-IN-140 (1)</b>      <b>Mar. 2013</b></p> <p>Material and Quality Control Standard for Level Instruments</p> <p>Pages: 23</p>
<p><b>IPS-I-IN-100 (1)</b>      <b>Jan. 2005</b></p> <p>Inspection Standard for General Instrument systems</p> <p>Pages: 22</p>	<p><b>IPS-M-IN-150 (1)</b>      <b>Jan. 2007</b></p> <p>Material and Equipment Standard for Receiving Instruments</p> <p>Pages: 25</p>
<p><b>IPS-I-IN-115 (1)</b>      <b>Feb. 2005</b></p> <p>Periodical Inspection for Instrumentation</p> <p>Pages: 35</p>	<p><b>IPS-M-IN-160 (1)</b>      <b>Aug. 2003</b></p> <p>Material Standard for Control Valves</p> <p>Pages: 7</p>
<p><b>IPS-M-IN-110 (1)</b>      <b>Jan. 2010</b></p> <p>Material and Equipment Standard for Pressure Instruments</p> <p><b>Bilingual</b></p> <p>Pages: 29</p>	<p><b>IPS-M-IN-190 (2)</b>      <b>Feb. 2010</b></p> <p>Material and Equipment Standard for Transmission Systems</p> <p><b>Bilingual</b></p> <p>Pages: 32</p>

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<p><b>IPS-M-IN-220 (1)</b>      <b>Apr. 2010</b></p> <p>Material and Equipment Standard for Control Panels and System Cabinets</p> <p><b>Bilingual</b></p> <p>Pages: 48</p>	
<p><b>IPS-M-IN-240 (0)</b>      <b>Oct. 1996</b></p> <p>Material Standard for Measurement of Liquid Hydrocarbons (Custody Transfer)</p> <p>Amendment No. 1      Nov. 2012</p> <p>Pages: 25</p>	
<p><b>IPS-M-IN-250 (1)</b>      <b>Mar. 2004</b></p> <p>Material and Equipment Standard for Distributed Control System (DCS)</p> <p>Pages: 41</p>	
<p><b>IPS-M-IN-260 (1)</b>      <b>May 2006</b></p> <p>Material and Equipment Standard for Alarms and Protective Systems</p> <p>Pages: 16</p>	
<p><b>IPS-M-IN-280 (1)</b>      <b>Feb. 2007</b></p> <p>Material Standard for Miscellaneous Items</p> <p>Pages: 42</p>	
<p><b>IPS-M-IN-290 (0)</b>      <b>Mar. 1996</b></p> <p>Material and Equipment Standard for Programmable Logic Controllers (PLC)</p> <p>Amendment No. 1      Jun. 2002</p> <p>Pages: 34</p>	



**Fixed Mechanical Equipment**

<p><b>IPS-C-ME-120 (0)</b>      <b>May 1993</b></p> <p>Construction Standard for Aviation Turbine Fuel Storage Tanks</p> <p>Amendment No. 1      Jan. 1999</p> <p>Pages: 7</p>
<p><b>IPS-C-ME-130 (0)</b>      <b>May 1993</b></p> <p>Construction Standard for LPG Pressure Storage Spheres</p> <p>Amendment No. 1      Mar. 1999 Amendment No. 2      Feb. 2012</p> <p>Pages: 10</p>
<p><b>IPS-E-ME-120 (0)</b>      <b>Aug. 1993</b></p> <p>Engineering Standard for Aviation Turbine Fuel Storage Tanks</p> <p>Amendment No. 1      Jan. 1999</p> <p>Pages: 10</p>
<p><b>IPS-E-ME-130 (0)</b>      <b>May 1993</b></p> <p>Engineering Standard for LPG Pressure Storage Spheres</p> <p>Amendment No. 1      Mar. 1999 Amendment No. 2      Dec. 2011</p> <p>Pages: 21</p>
<p><b>IPS-G-ME-100 (1)</b>      <b>Nov. 2004</b></p> <p>General Standard for Atmospheric Above Ground Welded Steel Storage Tanks</p> <p>Pages: 40</p>
<p><b>IPS-G-ME-110 (1)</b>      <b>Oct. 2005</b></p> <p>General Standard for Large Welded Low Pressure Storage Tanks</p> <p>Pages: 42</p>

<p><b>IPS-G-ME-150 (1)</b>      <b>Jan. 2010</b></p> <p>General Standard for Towers, Reactors, Pressure Vessels and Internals</p> <p><b>Bilingual</b></p> <p>Pages: 98</p>
<p><b>IPS-G-ME-160 (2)</b>      <b>Oct. 2009</b></p> <p>General Standard for Water Cooling Towers</p> <p><b>Bilingual</b></p> <p>Pages: 66</p>
<p><b>IPS-G-ME-170 (2)</b>      <b>July 2009</b></p> <p>General Standard for Firetube Package Boilers</p> <p><b>Bilingual</b></p> <p>Pages: 31</p>
<p><b>IPS-G-ME-180 (2)</b>      <b>Nov. 2009</b></p> <p>General Standard for Water Tube Boilers</p> <p><b>Bilingual</b></p> <p>Pages: 74</p>
<p><b>IPS-G-ME-200 (1)</b>      <b>Mar. 2003</b></p> <p>Engineering and Material Standard for Fired Heaters</p> <p>Pages: 22</p>
<p><b>IPS-G-ME-210 (2)</b>      <b>Feb. 2010</b></p> <p>General Standard for Flare Details for General Refinery and Petrochemical Service</p> <p><b>Bilingual</b></p> <p>Pages: 14</p>

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<p><b>IPS-G-ME-220 (2)</b>      <b>Jan. 2010</b></p> <p>General Standard for Shell &amp; Tube Heat Exchangers</p> <p><b>Bilingual</b></p> <p>Pages: 46</p>
<p><b>IPS-G-ME-230 (2)</b>      <b>Aug. 2009</b></p> <p>General Standard for Double Pipe Heat Exchangers</p> <p><b>Bilingual</b></p> <p>Pages: 18</p>
<p><b>IPS-G-ME-245 (1)</b>      <b>Mar. 2003</b></p> <p>Engineering and Material Standard for Air Cooled Heat Exchanger</p> <p>Amendment No. 1      Nov. 2012</p> <p>Pages: 30</p>
<p><b>IPS-G-ME-250 (2)</b>      <b>Oct. 2009</b></p> <p>General Standard for Pressure and Vacuum Relief Devices</p> <p><b>Bilingual</b></p> <p>Pages: 31</p>
<p><b>IPS-G-ME-253 (1)</b>      <b>Feb. 2005</b></p> <p>General Requirements for Industrial Incinerators</p> <p>Pages: 14</p>
<p><b>IPS-M-ME-120 (0)</b>      <b>May 1993</b></p> <p>Material and Equipment Standard for Aviation Turbine Fuel Storage Tanks</p> <p>Amendment No. 1      Jan. 1999</p> <p>Pages: 18</p>

<p><b>IPS-M-ME-130 (0)</b>      <b>Aug. 1993</b></p> <p>Material and Equipment Standard for LPG Pressure Storage Vessels and Spheres</p> <p>Amendment No. 1      Mar. 1999          Amendment No. 2      Feb. 2013          Pages: 17</p>
<p><b>IPS-M-ME-206 (0)</b>      <b>Jan. 1996</b></p> <p>Material and Equipment Standard for Reformer Furnaces Including Tube and Outlet Manifolds</p> <p>Amendment No. 1      Dec. 2002</p> <p>Pages: 29</p>
<p><b>IPS-M-ME-256 (0)</b>      <b>Nov. 1993</b></p> <p>Material and Equipment Standard for Steam Jet Ejectors</p> <p>Amendment No. 1      June 1999</p> <p>Pages: 15</p>

Piping & Pipelines

<p><b>IPS-C-PI-140 (1)</b>      <b>May 2009</b></p> <p>Construction Standard for Transportation Pipelines (Onshore)</p> <p><b>Bilingual</b></p> <p>Pages: 86</p>
<p><b>IPS-C-PI-240(2)</b>      <b>Nov. 2008</b></p> <p>Construction Standard for Plant Piping Systems</p> <p><b>Bilingual</b></p> <p>Pages: 24</p>
<p><b>IPS-C-PI-270 (2)</b>      <b>Nov. 2009</b></p> <p>Construction Standard for Welding of Transportation Pipeline</p> <p><b>Bilingual</b></p> <p>Pages: 46</p>
<p><b>IPS-C-PI-290 (1)</b>      <b>Oct. 2009</b></p> <p>Construction Standard for Welding of Plant Piping Systems</p> <p><b>Bilingual</b></p> <p>Pages: 31</p>
<p><b>IPS-C-PI-350 (2)</b>      <b>Jan. 2009</b></p> <p>Construction Standard for Plant Piping Systems Pressure Testing</p> <p><b>Bilingual</b></p> <p>Pages: 18</p>
<p><b>IPS-C-PI-370 (2)</b>      <b>Jan. 2010</b></p> <p>Construction Standard for Transportation Pipelines (Onshore) Pressure Testing</p> <p><b>Bilingual</b></p> <p>Pages: 49</p>

<p><b>IPS-C-PI-410 (1)</b>      <b>Dec. 2009</b></p> <p>Construction Standard for Inside Pipe Chemical Cleaning</p> <p><b>Bilingual</b></p> <p>Pages: 25</p>
<p><b>IPS-E-PI-140 (1)</b>      <b>July 2009</b></p> <p>Engineering Standard for Onshore Transportation Pipelines</p> <p><b>Bilingual</b></p> <p>Pages: 46</p>
<p><b>IPS-E-PI-200 (0)</b>      <b>July 1997</b></p> <p>Engineering Standard for Flexibility Analysis</p> <p>Amendment No. 1      June 2006</p> <p>Pages: 11</p>
<p><b>IPS-E-PI-221 (1)</b>      <b>Apr. 2012</b></p> <p>Engineering Standard for Piping Material Selection (on Plot Piping)</p> <p>Pages: 430</p>
<p><b>IPS-E-PI-240 (2)</b>      <b>Sep. 2009</b></p> <p>Engineering Standard for Plant Piping Systems</p> <p><b>Bilingual</b></p> <p>Pages: 99</p>
<p><b>IPS-G-PI-230 (1)</b>      <b>Jan. 2010</b></p> <p>General Standard for Strainers &amp; Filters</p> <p><b>Bilingual</b></p> <p>Pages: 31</p>

Piping & Pipelines

<p><b>IPS-G-PI-280 (2)</b>      <b>Dec. 2009</b></p> <p>General Standard for Pipe Supports</p> <p><b>Bilingual</b></p> <p>Pages: 19</p>	
<p><b>IPS-M-PI-110 (1)</b>      <b>Mar. 2003</b></p> <p>Material and Equipment Standard for Valves</p> <p>Pages: 51</p>	
<p><b>IPS-M-PI-130 (1)</b>      <b>June 2002</b></p> <p>Material and Equipment Standard for Pig Launching and Receiving Traps</p> <p>Pages: 18</p>	
<p><b>IPS-M-PI-150 (2)</b>      <b>Jan. 2013</b></p> <p>Material Standard for Flanges &amp; Fittings</p> <p>Pages: 24</p>	
<p><b>IPS-M-PI-170 (0)</b>      <b>July 1997</b></p> <p>Material and Equipment Standard for Pigs</p> <p>Amendment No. 1      Dec.2000</p> <p>Pages: 9</p>	
<p><b>IPS-M-PI-190 (2)</b>      <b>Apr. 2004</b></p> <p>Material and Equipment Standard for Line Pipe</p> <p>Pages: 46</p>	

Process Machineries

<p><b>IPS-C-PM-216 (2)</b>                      <b>July 2009</b></p> <p>Construction Standard for Process Machinery Installation and Installation Design</p> <p><b>Bilingual</b></p> <p>Pages: 54</p>	<p><b>IPS-G-PM-120 (1)</b>                      <b>Oct. 2004</b></p> <p>General Standard for Accessibility &amp; Safety of Machineries</p> <p>Pages: 18</p>
<p><b>IPS-E-PM-100 (2)</b>                      <b>Oct. 2009</b></p> <p>Engineering Standard for General Design Requirements of Process Machineries</p> <p><b>Bilingual</b></p> <p>Pages: 25</p>	<p><b>IPS-G-PM-200 (2)</b>                      <b>Jan. 2010</b></p> <p>General Standard for Reciprocating Compressors for Petroleum, Chemical and Gas Industry Services</p> <p><b>Bilingual</b></p> <p>Pages: 29</p>
<p><b>IPS-E-PM-110 (2)</b>                      <b>July 2009</b></p> <p>Engineering Standard for Technical Evaluation of Machineries</p> <p><b>Bilingual</b></p> <p>Pages: 38</p>	<p><b>IPS-G-PM-250 (2)</b>                      <b>Jan. 2010</b></p> <p>General Standard for Petroleum, Petrochemical and Natural Gas Industries-Steam Turbines-Special-Purpose Applications</p> <p><b>Bilingual</b></p> <p>Pages: 24</p>
<p><b>IPS-E-PM-385 (2)</b>                      <b>Aug. 2009</b></p> <p>Engineering Standard for Process Machinery Piping</p> <p><b>Bilingual</b></p> <p>Pages: 21</p>	<p><b>IPS-G-PM-260 (2)</b>                      <b>Nov. 2009</b></p> <p>General Standard for Gas Turbines for Petroleum, Chemical and Gas Industry Services</p> <p><b>Bilingual</b></p> <p>Pages: 33</p>
<p><b>IPS-E-PM-400 (2)</b>                      <b>Jan. 2010</b></p> <p>Engineering Standard for Vendor's Data Requirements</p> <p><b>Bilingual</b></p> <p>Pages: 13</p>	<p><b>IPS-I-PM-305 (1)</b>                      <b>Feb. 2004</b></p> <p>Standard for Periodical Inspection of Machineries</p> <p>Pages: 21</p>
<p><b>IPS-G-PM-105 (2)</b>                      <b>Dec. 2009</b></p> <p>General Standard for Centrifugal Pumps for Petroleum, Petrochemical and Natural Gas Industries</p> <p><b>Bilingual</b></p> <p>Pages: 22</p>	<p><b>IPS-M-PM-115 (1)</b>                      <b>May. 2006</b></p> <p>Material and Equipment Standard for Centrifugal Pumps for General Services</p> <p>Pages: 12</p>

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<p><b>IPS-M-PM-125 (1)</b>      <b>Mar. 2009</b></p> <p>Material and Equipment Standard for Centrifugal Fire Water Pumps</p> <p><b>Bilingual</b></p> <p>Pages: 29</p>
<p><b>IPS-M-PM-130 (1)</b>      <b>June 2002</b></p> <p>Material and Equipment Standard for Positive Displacement Pumps Reciprocating</p> <p>Amendment No. 1      Jan. 2013</p> <p>Pages: 13</p>
<p><b>IPS-M-PM-135 (0)</b>      <b>Mar. 1996</b></p> <p>Material and Equipment Standard for Light Duty Centrifugal Pumps</p> <p>Amendment No. 1      Oct. 1999 Amendment No. 2      Nov. 2011</p> <p>Pages: 13</p>
<p><b>IPS-M-PM-140 (2)</b>      <b>Dec. 2012</b></p> <p>Material and Equipment Standard for Positive Displacement Pumps-Rotary</p> <p>Pages: 10</p>
<p><b>IPS-M-PM-150 (1)</b>      <b>Nov. 2003</b></p> <p>Material and Equipment Standard for Positive Displacement Pumps Controlled Volume</p> <p>Pages: 6</p>
<p><b>IPS-M-PM-160 (0)</b>      <b>July 1995</b></p> <p>Material and Equipment Standard for Positive Displacement, Oil Sealed-Rotary Vacuum Pumps</p> <p>Amendment No. 1      Sep. 2002</p> <p>Pages: 21</p>

<p><b>IPS-M-PM-170 (2)</b>      <b>June 2009</b></p> <p>Material and Equipment Standard for Axial and Centrifugal Compressors and Expander-Compressors for Petroleum, Chemical and Gas Industry Services</p> <p>Pages: 34</p>
<p><b>IPS-M-PM-180 (1)</b>      <b>June 2002</b></p> <p>Material and Equipment Standard for Packaged, Integrally Geared Centrifugal Air Compressors for Petroleum, Chemical and Gas Industry Services</p> <p>Amendment No. 1      June 2012</p> <p>Pages: 13</p>
<p><b>IPS-M-PM-211 (1)</b>      <b>July 2006</b></p> <p>Material and Equipment Standard for Reciprocating Compressors for Instrument Air Services</p> <p>Pages: 15</p>
<p><b>IPS-M-PM-220 (1)</b>      <b>June 2002</b></p> <p>Material and Equipment Standard for Rotary-Type Positive Displacement Compressors for Petroleum, Petrochemical and Natural Gas Industries</p> <p>Amendment No. 1      Apr. 2012</p> <p>Pages: 14</p>
<p><b>IPS-M-PM-230 (0)</b>      <b>Nov. 1993</b></p> <p>Material and Equipment Standard for Special Purpose Centrifugal Fans</p> <p>Amendment No. 1      July 2002</p> <p>Pages: 17</p>
<p><b>IPS-M-PM-235 (0)</b>      <b>Dec. 1994</b></p> <p>Material and Equipment Standard for General Purpose Centrifugal Fans</p> <p>Amendment No. 1      Mar. 2011</p> <p>Pages: 14</p>

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<p><b>IPS-M-PM-240 (2)      July 2012</b></p> <p>Material and Equipment Standard for General Purpose Steam Turbines for Petroleum, Chemical and Gas Industry Services</p> <p>Pages: 14</p>	
<p><b>IPS-M-PM-290 (1)      Mar.2005</b></p> <p>Material and Equipment Standard for Reciprocating Internal Combustion Engines</p> <p>Pages: 25</p>	
<p><b>IPS-M-PM-300 (1)      Dec. 2003</b></p> <p>Material and Equipment Standard for Special Purpose Gear Units</p> <p>Pages: 7</p>	
<p><b>IPS-M-PM-310 (1)      Dec. 2003</b></p> <p>Material and Equipment Standard for Special Purpose Couplings</p> <p>Pages: 6</p>	
<p><b>IPS-M-PM-320 (1)      June 2002</b></p> <p>Material and Equipment Standard for Lubrication, Shaft Sealing, Oil-Control System and Auxiliaries</p> <p>Amendment No. 1      Mar. 2011</p> <p>Pages: 13</p>	
<p><b>IPS-M-PM-330 (1)      Jan. 2003</b></p> <p>Material and Equipment Standard for Mixers</p> <p>Pages: 22</p>	

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<p><b>IPS-E-PR-150 (0)</b>      <b>July 1997</b></p> <p>Engineering Standard for Basic Design Package &amp; Recommended Practice for Feasibility Studies</p> <p>Amendment No. 1      Oct. 2003</p> <p>Pages: 104</p>
<p><b>IPS-E-PR-170 (0)</b>      <b>Jan. 1996</b></p> <p>Engineering Standard for Process Flow Diagram</p> <p>Amendment No. 1      Dec. 2000 Amendment No. 2      Dec. 2011</p> <p>Pages: 29</p>
<p><b>IPS-E-PR-190 (1)</b>      <b>Mar. 2009</b></p> <p>Engineering Standard for Layout &amp; Spacing</p> <p><b>Bilingual</b></p> <p>Pages: 72</p>
<p><b>IPS-E-PR-200 (0)</b>      <b>Mar. 1996</b></p> <p>Engineering Standard for Basic Engineering Design Data</p> <p>Amendment No.1      Jan. 2002 Amendment No. 2      May 2012</p> <p>Pages: 51</p>
<p><b>IPS-E-PR-230 (1)</b>      <b>July 2009</b></p> <p>Engineering Standard for Piping &amp; Instrumentation Diagrams (P &amp; IDs)</p> <p><b>Bilingual</b></p> <p>Pages: 153</p>
<p><b>IPS-E-PR-250 (0)</b>      <b>July 1997</b></p> <p>Engineering Standard for Performance Guarantee</p> <p>Amendment No. 1      Dec. 2003</p> <p>Pages: 30</p>

<p><b>IPS-E-PR-260 (1)</b>      <b>Nov. 2006</b></p> <p>Engineering Standard for Detailed Design, Engineering &amp; Procurement</p> <p>Pages: 57</p>
<p><b>IPS-E-PR-280 (0)</b>      <b>Dec. 1997</b></p> <p>Engineering Standard for Start-Up Sequence &amp; General Commissioning Procedures</p> <p>Amendment No.1      May 2004 Amendment No. 2      July 2012</p> <p>Pages: 28</p>
<p><b>IPS-E-PR-290 (0)</b>      <b>Jan. 1996</b></p> <p>Engineering Standard for Plant Operating Manuals</p> <p>Amendment No. 1      Feb. 2001</p> <p>Pages: 23</p>
<p><b>IPS-E-PR-300 (0)</b>      <b>Dec. 1997</b></p> <p>Engineering Standard for Plant Technical &amp; Equipment Manuals (Engineering Dossiers)</p> <p>Amendment No. 1      Feb. 2003</p> <p>Pages: 17</p>
<p><b>IPS-E-PR-308 (0)</b>      <b>Mar. 1996</b></p> <p>Engineering Standard for Numbering System</p> <p>Amendment No. 1      June 2003 Amendment No. 2      Apr. 2012</p> <p>Pages: 42</p>
<p><b>IPS-E-PR-310 (0)</b>      <b>Dec. 1997</b></p> <p>Engineering Standard for Process Design of Water Systems</p> <p>Amendment No. 1      Apr. 2006</p> <p>Pages: 59</p>



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<p><b>IPS-E-PR-330 (0)</b>      <b>Nov. 1993</b></p> <p>Engineering Standard for Process Design of Compressed Air Systems</p> <p>Amendment No. 1      Dec. 1998 Amendment No. 2      Dec. 2011</p> <p>Pages: 27</p>
<p><b>IPS-E-PR-340 (0)</b>      <b>Mar. 1996</b></p> <p>Engineering Standard for Process Design of Fuel Systems</p> <p>Amendment No. 1      July 2002 Amendment No. 2      Dec. 2012</p> <p>Pages: 21</p>
<p><b>IPS-E-PR-360 (1)</b>      <b>Mar. 2009</b></p> <p>Engineering Standard for Process Design of Liquid &amp; Gas Transfer &amp; Storage</p> <p><b>Bilingual</b></p> <p>Pages: 70</p>
<p><b>IPS-E-PR-370 (1)</b>      <b>Nov. 2009</b></p> <p>Engineering Standard for Process Design of Loading &amp; Unloading Facilities for Road Tankers</p> <p><b>Bilingual</b></p> <p>Pages: 49</p>
<p><b>IPS-E-PR-380 (0)</b>      <b>Dec. 1997</b></p> <p>Engineering Standard for Process Design of Solids Handling Systems</p> <p>Amendment No. 1      Aug. 2004</p> <p>Pages: 21</p>
<p><b>IPS-E-PR-400 (0)</b>      <b>July 1994</b></p> <p>Engineering Standard for Process Design of Cooling Water Circuits</p> <p>Amendment No. 1      Feb. 1999 Amendment No. 2      Oct. 2004</p> <p>Pages: 23</p>

<p><b>IPS-E-PR-410 (0)</b>      <b>Mar. 1996</b></p> <p>Engineering Standard for Process Design of Hot Oil &amp; Tempered Water Circuits</p> <p>Amendment No. 1      May 2003</p> <p>Pages: 16</p>
<p><b>IPS-E-PR-420 (0)</b>      <b>Jan. 1996</b></p> <p>Engineering Standard for Process Design of Heat Tracing &amp; Winterizing</p> <p>Amendment No.1      Mar. 2001</p> <p>Pages: 27</p>
<p><b>IPS-E-PR-440 (0)</b>      <b>Mar. 1996</b></p> <p>Engineering Standard for Process Design of Piping Systems (Process Piping &amp; Pipeline Sizing)</p> <p>Amendment No. 1      Aug. 2003 Amendment No. 2      Aug. 2012</p> <p>Pages: 45</p>
<p><b>IPS-E-PR-450 (1)</b>      <b>Aug. 2009</b></p> <p>Engineering Standard for Process Design of Pressure Relieving Systems Inclusive Safety Relief Valves</p> <p><b>Bilingual</b></p> <p>Pages: 61</p>
<p><b>IPS-E-PR-460 (1)</b>      <b>Dec. 2009</b></p> <p>Engineering Standard for Process Design of Flare &amp; Blow down Systems</p> <p><b>Bilingual</b></p> <p>Pages: 53</p>
<p><b>IPS-E-PR-470 (1)</b>      <b>Aug. 2009</b></p> <p>Engineering Standard for Process Design of Emergency Measures</p> <p><b>Bilingual</b></p> <p>Pages: 16</p>

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<p><b>IPS-E-PR-491 (1)</b>      <b>Oct. 2006</b></p> <p>Engineering Standard for Process Requirements of Crude Distillation and Hydrogen Production Units</p> <p>Pages: 40</p>
<p><b>IPS-E-PR-492 (1)</b>      <b>Aug. 2006</b></p> <p>Engineering Standard for Process Requirements of Caustic and Chemical Systems</p> <p>Pages: 28</p>
<p><b>IPS-E-PR-500 (0)</b>      <b>Dec. 1997</b></p> <p>Engineering Standard for Process Design of LPG Recovery &amp; Splitter Units</p> <p>Amendment No. 1      Dec. 2002</p> <p>Pages: 12</p>
<p><b>IPS-E-PR-551 (0)</b>      <b>Dec. 1997</b></p> <p>Engineering Standard for Process Design of Gas Treating Units</p> <p>Amendment No. 1      Jan. 2005</p> <p>Pages: 26</p>
<p><b>IPS-E-PR-700 (0)</b>      <b>July 1995</b></p> <p>Engineering Standard for Process Design of Crude Oil Electrostatic Desalters</p> <p>Amendment No. 1      June 2000</p> <p>Pages: 12</p>
<p><b>IPS-E-PR-725 (1)</b>      <b>Feb. 2010</b></p> <p>Engineering Standard for Process Design of Plant Waste Water Sewer Systems</p> <p><b>Bilingual</b></p> <p>Pages: 88</p>

<p><b>IPS-E-PR-730 (1)</b>      <b>Feb. 2010</b></p> <p>Engineering Standard for Process Design Plant Waste Water Treatment &amp; Recovery Systems</p> <p><b>Bilingual</b></p> <p>Pages: 172</p>
<p><b>IPS-E-PR-735 (1)</b>      <b>Feb. 2010</b></p> <p>Engineering Standard for Process Design of Plant Solid Waste Treatment &amp; Disposal Systems</p> <p><b>Bilingual</b></p> <p>Pages: 57</p>
<p><b>IPS-E-PR-745 (0)</b>      <b>Aug. 1993</b></p> <p>Engineering Standard for Process Design of Vacuum Equipment (Vacuum Pumps and Steam Jet Ejectors)</p> <p>Amendment No. 1      Aug. 1998</p> <p>Pages: 30</p>
<p><b>IPS-E-PR-750 (1)</b>      <b>Feb. 2010</b></p> <p>Engineering Standard for Process Design of Compressors</p> <p><b>Bilingual</b></p> <p>Pages: 60</p>
<p><b>IPS-E-PR-755 (0)</b>      <b>Aug. 1993</b></p> <p>Engineering Standard for Process Design of Fans and Blowers</p> <p>Amendment No. 1      July 1998</p> <p>Pages: 24</p>
<p><b>IPS-E-PR-771 (1)</b>      <b>Oct. 2009</b></p> <p>Engineering Standard for Process Requirements of Heat Exchanging Equipment</p> <p><b>Bilingual</b></p> <p>Pages: 65</p>

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<p><b>IPS-E-PR-775 (0)</b>      <b>July 1995</b></p> <p>Engineering Standard for Process Design of Double Pipe Heat Exchangers</p> <p>Amendment No. 1      June. 2000</p> <p>Pages: 7</p>
<p><b>IPS-E-PR-785 (0)</b>      <b>Jan. 1996</b></p> <p>Engineering Standard for Process Design of Air Cooled Heat Exchangers (Air Coolers)</p> <p>Amendment No. 1      Sep. 2001 Amendment No. 2      Sep. 2011</p> <p>Pages: 17</p>
<p><b>IPS-E-PR-790 (0)</b>      <b>Jan. 1996</b></p> <p>Engineering Standard for Process Design of Cooling Towers</p> <p>Amendment No. 1      Nov. 2001 Amendment No. 2      Oct. 2012</p> <p>Pages: 36</p>
<p><b>IPS-E-PR-800 (0)</b>      <b>July 1997</b></p> <p>Engineering Standard for Process Design of Steam Boilers</p> <p>Amendment No. 1      Jan. 2004 Amendment No. 2      Oct. 2011</p> <p>Pages: 39</p>
<p><b>IPS-E-PR-810 (0)</b>      <b>Dec. 1997</b></p> <p>Engineering Standard for Process Design of Furnaces</p> <p>Amendment No. 1      Sep. 2005</p> <p>Pages: 40</p>
<p><b>IPS-E-PR-830 (0)</b>      <b>Dec. 1997</b></p> <p>Engineering Standard for Process Design of Valves &amp; Control Valves</p> <p>Amendment No. 1      Nov. 2005</p> <p>Pages: 31</p>

<p><b>IPS-E-PR-845 (0)</b>      <b>Oct. 1996</b></p> <p>Engineering Standard for Process Design of Steam Traps</p> <p>Amendment No. 1      Feb. 2003</p> <p>Pages: 19</p>
<p><b>IPS-E-PR-850 (1)</b>      <b>Dec. 2009</b></p> <p>Engineering Standard for Process Requirements of Vessels, Reactors &amp; Separators</p> <p><b>Bilingual</b></p> <p>Pages: 69</p>
<p><b>IPS-E-PR-880 (1)</b>      <b>Jan. 2010</b></p> <p>Engineering Standard for Process Design of Gas (Vapor) - Liquid Separators</p> <p><b>Bilingual</b></p> <p>Pages: 53</p>
<p><b>IPS-E-PR-895 (0)</b>      <b>July 1997</b></p> <p>Engineering Standard for Process Design of Solid-Liquid Separators</p> <p>Amendment No. 1      Jan. 2006</p> <p>Pages: 30</p>
<p><b>IPS-E-PR-905 (0)</b>      <b>Dec. 1997</b></p> <p>Engineering Standard for Process Design of Dryers</p> <p>Amendment No. 1      Feb. 2007</p> <p>Pages: 42</p>

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<p><b>IPS-C-SF-242 (1)</b>      <b>Mar. 2009</b></p> <p>Construction Standard for Delivery, Testing, Inspection, Quality Control, Commissioning and Maintenance of Fire Fighting Pumps</p> <p><b>Bilingual</b></p> <p>Pages: 16</p>
<p><b>IPS-C-SF-505 (0)</b>      <b>May 1997</b></p> <p>Standard for Installation, Inspection &amp; Testing of Fire Fighting Fixed Systems</p> <p>Amendment No. 1      May 2003</p> <p>Pages: 21</p>
<p><b>IPS-C-SF-507 (0)</b>      <b>July 1997</b></p> <p>Standard for Training Facilities &amp; Fire Fighters Qualifications</p> <p>Amendment No. 1      Feb. 2004</p> <p>Pages: 12</p>
<p><b>IPS-C-SF-550 (0)</b>      <b>Mar.1996</b></p> <p>Application Standard for Safety Boundary Limit</p> <p>Amendment No. 1      Nov. 2000</p> <p>Pages: 13</p>
<p><b>IPS-E-SF-100 (0)</b>      <b>Aug. 1993</b></p> <p>Engineering Standard for Classification of Fires and Fire Hazard Properties</p> <p>Amendment No. 1      July 1998          Amendment No. 2      Oct. 2005          Amendment No. 3      June 2012</p> <p>Pages: 27</p>
<p><b>IPS-E-SF-120 (0)</b>      <b>May 1993</b></p> <p>Engineering Standard for Offshore Installation Fire Fighting and Fire Protection</p> <p>Amendment No. 1      July 1998          Amendment No. 2      Jan. 2012</p> <p>Pages: 18</p>

<p><b>IPS-E-SF-140 (0)</b>      <b>May 1993</b></p> <p>Engineering Standard for Foam Generating and Proportioning Systems</p> <p>Amendment No. 1      Dec. 1998          Amendment No. 2      July 2006</p> <p>Pages: 46</p>
<p><b>IPS-E-SF-160 (0)</b>      <b>Aug. 1993</b></p> <p>Engineering Standard for CO2 Gas Fire Extinguishing Systems</p> <p>Amendment No. 1      Feb. 1999          Amendment No. 2      Aug. 2006</p> <p>Pages: 36</p>
<p><b>IPS-E-SF-180 (0)</b>      <b>Aug. 1993</b></p> <p>Engineering Standard for Dry Chemical Fire Extinguishing System</p> <p>Amendment No. 1      Feb. 1999          Amendment No. 2      Oct. 2006</p> <p>Pages: 38</p>
<p><b>IPS-E-SF-200 (0)</b>      <b>Nov. 1993</b></p> <p>Engineering Standard for Fire Fighting Sprinkler Systems</p> <p>Amendment No. 1      Jan. 2000          Amendment No. 2      Oct. 2011</p> <p>Pages: 66</p>
<p><b>IPS-E-SF-220 (0)</b>      <b>Nov. 1993</b></p> <p>Engineering Standard for Fire Water Distribution and Storage Facilities</p> <p>Amendment No. 1      May 1998          Amendment No. 2      May 2007</p> <p>Pages: 31</p>
<p><b>IPS-E-SF-260 (0)</b>      <b>May 1993</b></p> <p>Engineering Standard for Automatic Detectors and Fire Alarm Systems</p> <p>Amendment No. 1      Aug. 1998          Amendment No. 2      Dec. 2011</p> <p>Pages: 15</p>

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<p><b>IPS-E-SF-300 (0)</b>      <b>Nov. 1993</b></p> <p>Engineering Standard for Application of Breathing Apparatus in Safety and Fire Fighting</p> <p>Amendment No. 1      Mar. 2000          Amendment No. 2      Jan. 2012          Pages: 41</p>
<p><b>IPS-E-SF-340 (0)</b>      <b>Nov. 1993</b></p> <p>Engineering Standard for Fire Fighting Hose Box and/or Shelter</p> <p>Amendment No. 1      May. 2000</p> <p>Pages: 5</p>
<p><b>IPS-E-SF-380 (0)</b>      <b>Nov. 1993</b></p> <p>Engineering Standard for Fire Protection in Buildings</p> <p>Amendment No. 1      May. 2000          Amendment No. 2      July 2012</p> <p>Pages: 35</p>
<p><b>IPS-E-SF-400 (0)</b>      <b>July 1997</b></p> <p>Engineering Standard for Industrial Stairs, Ladders, Platforms, and Scaffolds</p> <p>Amendment No. 1      June 2003</p> <p>Pages: 96</p>
<p><b>IPS-E-SF-504 (0)</b>      <b>July 1995</b></p> <p>Engineering Standard for Fire Fighting Vessels</p> <p>Amendment No. 1      Oct. 2000          Amendment No. 2      Sep. 2012</p> <p>Pages: 36</p>
<p><b>IPS-E-SF-520 (0)</b>      <b>Nov. 1993</b></p> <p>Engineering Standard for Fire Stations</p> <p>Amendment No. 1      May. 2000</p> <p>Pages: 10</p>

<p><b>IPS-E-SF-860 (1)</b>      <b>Oct. 2007</b></p> <p>Engineering Standard for Air Pollution Control</p> <p>Pages: 108</p>
<p><b>IPS-E-SF-880 (1)</b>      <b>Nov. 2005</b></p> <p>Engineering Standard for Water Pollution Control</p> <p>Pages: 30</p>
<p><b>IPS-G-SF-100 (1)</b>      <b>Oct. 2009</b></p> <p>Engineering and Equipment Standard for Fire Fighting Trucks and Pumps</p> <p><b>Bilingual</b></p> <p>Pages: 101</p>
<p><b>IPS-G-SF-110 (0)</b>      <b>May 1997</b></p> <p>General Standard for Protection Against Radioactive Sealed Sources</p> <p>Amendment No. 1      Oct. 2003</p> <p>Pages: 81</p>
<p><b>IPS-G-SF-126 (1)</b>      <b>June 2009</b></p> <p>General Standard for Hand &amp; Wheel Type Fire Extinguishers</p> <p><b>Bilingual</b></p> <p>Pages: 89</p>
<p><b>IPS-G-SF-130 (0)</b>      <b>Dec. 1997</b></p> <p>General Standard for Disposal of Solid Waste</p> <p>Amendment No. 1      July 2004          Amendment No. 2      Nov. 2012</p> <p>Pages: 34</p>

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<p><b>IPS-G-SF-140 (0)</b>      <b>Mar. 1996</b></p> <p>General Standard for Masks &amp; Breathing Apparatus</p> <p>Amendment No. 1      Oct. 2000</p> <p>Pages: 73</p>
<p><b>IPS-G-SF-202 (0)</b>      <b>Dec. 1997</b></p> <p>General Standard for Mains Water, Sprinklers, DCP, CO2 &amp; Foam Systems</p> <p>Amendment No. 1      Aug. 2004</p> <p>Pages: 48</p>
<p><b>IPS-G-SF-240 (1)</b>      <b>July 2009</b></p> <p>General Standard for Fire Fighting Pump Systems &amp; Trailers</p> <p><b>Bilingual</b></p> <p>Pages: 38</p>
<p><b>IPS-G-SF-310 (0)</b>      <b>May 1997</b></p> <p>General Standard for Gas Detectors</p> <p>Amendment No. 1      Nov. 2002 Amendment No. 2      Dec. 2012</p> <p>Pages: 29</p>
<p><b>IPS-G-SF-340 (1)</b>      <b>July 2009</b></p> <p>General Standard for Ancillary and Miscellaneous Safety and Fire Equipment</p> <p><b>Bilingual</b></p> <p>Pages: 51</p>
<p><b>IPS-G-SF-345 (0)</b>      <b>Oct. 1996</b></p> <p>General Standard for Safety Belts</p> <p>Amendment No. 1      Feb. 2003</p> <p>Pages: 27</p>

<p><b>IPS-G-SF-355 (1)</b>      <b>Nov. 2009</b></p> <p>General Standard for Safety Portable Ladders</p> <p><b>Bilingual</b></p> <p>Pages: 85</p>
<p><b>IPS-G-SF-440 (0)</b>      <b>May 1997</b></p> <p>General Standard for Fire Protection in General &amp; Explosive Stores</p> <p>Amendment No. 1      Aug. 2003</p> <p>Pages: 47</p>
<p><b>IPS-G-SF-460 (1)</b>      <b>Dec. 2009</b></p> <p>General Standard for First Aids &amp; Sanitation</p> <p><b>Bilingual</b></p> <p>Pages: 102</p>
<p><b>IPS-G-SF-503 (1)</b>      <b>Aug. 2009</b></p> <p>General Standard for Delivery-Commissioning, Preventive Maintenance of Fire Fighting Trucks</p> <p><b>Bilingual</b></p> <p>Pages: 25</p>
<p><b>IPS-G-SF-540 (0)</b>      <b>Dec. 1997</b></p> <p>General Standard for Safety &amp; Fire Training Centers Fire Station Facilities</p> <p>Amendment No. 1      Oct. 2004</p> <p>Pages: 21</p>
<p><b>IPS-G-SF-860 (0)</b>      <b>July 1997</b></p> <p>General Standard for Air Pollution Control</p> <p>Amendment No. 1      Dec. 2003</p> <p>Pages: 39</p>

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<p><b>IPS-G-SF-870 (0)</b>      <b>Dec. 1997</b></p> <p>General Standard for Soil Pollution Control</p> <p>Amendment No. 1      Oct. 2005</p> <p>Pages: 60</p>
<p><b>IPS-G-SF-880 (0)</b>      <b>Dec. 1997</b></p> <p>General Standard for Water Pollution Control</p> <p>Amendment No. 1      Aug. 2005 Amendment No. 2      Feb. 2013</p> <p>Pages: 36</p>
<p><b>IPS-G-SF-900 (0)</b>      <b>Dec. 1997</b></p> <p>General Standard for Noise Control and Vibration</p> <p>Amendment No. 1      Jan. 2005</p> <p>Pages: 29</p>
<p><b>IPS-M-SF-105 (1)</b>      <b>May 2009</b></p> <p>Material and Equipment Standard for Valves, Reels, Hoses, Nozzles and Monitors for Fire Fighting</p> <p><b>Bilingual</b></p> <p>Pages: 120</p>
<p><b>IPS-M-SF-142 (1)</b>      <b>Nov. 2008</b></p> <p>Material and Equipment Standard for FLC-Foam Proportioners Generators and Twin Agents</p> <p><b>Bilingual</b></p> <p>Pages: 62</p>
<p><b>IPS-M-SF-325 (1)</b>      <b>May 2009</b></p> <p>Material and Equipment Standard for Personnel Safety and Fire Fighters Protective Equipment</p> <p><b>Bilingual</b></p> <p>Pages: 242</p>

<p><b>IPS-M-SF-455 (0)</b>      <b>Oct. 1996</b></p> <p>Material and Equipment Standard for Fire Blanket-Fire Fighters Suits (Fire-Proof Types) Fire-Resisting Curtain &amp; Shields</p> <p>Amendment No. 1      Oct. 2002</p> <p>Pages: 20</p>
<p><b>IPS-M-SF-504 (0)</b>      <b>Mar. 1996</b></p> <p>Material and Equipment Standard for Fire-Fighting Vessels</p> <p>Amendment No. 1      July 2002</p> <p>Pages: 13</p>
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Technical Protection

<p><b>IPS-C-TP-101 (1)</b>      <b>May 2010</b></p> <p>Construction Standard for Surface Preparation</p> <p><b>Bilingual</b></p> <p>Pages: 186</p>
<p><b>IPS-C-TP-102 (1)</b>      <b>Mar. 2010</b></p> <p>Construction Standard for Painting</p> <p><b>Bilingual</b></p> <p>Pages: 120</p>
<p><b>IPS-C-TP-274 (1)</b>      <b>Dec. 2009</b></p> <p>Construction Standard for Protective Coating</p> <p><b>Bilingual</b></p> <p>Pages: 75</p>
<p><b>IPS-C-TP-352 (1)</b>      <b>May. 2010</b></p> <p>Construction Standard for Lining</p> <p><b>Bilingual</b></p> <p>Pages: 219</p>
<p><b>IPS-C-TP-701 (1)</b>      <b>Apr. 2010</b></p> <p>Construction Standard for Application of Thermal Insulations</p> <p><b>Bilingual</b></p> <p>Pages: 134</p>
<p><b>IPS-C-TP-742 (1)</b>      <b>May 2010</b></p> <p>Construction Standard for Corrosion Consideration During Fabrication &amp; Installation</p> <p><b>Bilingual</b></p> <p>Pages: 161</p>

<p><b>IPS-C-TP-820 (0)</b>      <b>Dec. 1997</b></p> <p>Construction Standard for Cathodic Protection</p> <p>Amendment No. 1      Jan. 2005</p> <p>Pages: 98</p>
<p><b>IPS-E-TP-100 (1)</b>      <b>May 2009</b></p> <p>Engineering Standards for Paints</p> <p><b>Bilingual</b></p> <p>Pages: 114</p>
<p><b>IPS-E-TP-270 (1)</b>      <b>Mar. 2009</b></p> <p>Engineering Standards for Protective Coatings for Buried and Submerged Steel Structures</p> <p><b>Bilingual</b></p> <p>Pages: 72</p>
<p><b>IPS-E-TP-350 (1)</b>      <b>Jan. 2010</b></p> <p>Engineering Standard for Linings</p> <p><b>Bilingual</b></p> <p>Pages: 165</p>
<p><b>IPS-E-TP-700 (1)</b>      <b>Nov. 2009</b></p> <p>Engineering Standards for Thermal Insulations</p> <p><b>Bilingual</b></p> <p>Pages: 151</p>
<p><b>IPS-E-TP-740 (1)</b>      <b>Mar. 2010</b></p> <p>Engineering Standard for Corrosion Consideration in Material Selection</p> <p><b>Bilingual</b></p> <p>Pages: 161</p>



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<p><b>IPS-E-TP-760 (0)</b>      <b>Dec. 1997</b></p> <p>Engineering Standard for Corrosion Consideration in Design</p> <p>Amendment No. 1      July 2005</p> <p>Pages: 228</p>
<p><b>IPS-E-TP-780 (1)</b>      <b>Apr. 2010</b></p> <p>Engineering Standards for Chemical Control of Corrosive Environments</p> <p><b>Bilingual</b></p> <p>Pages: 263</p>
<p><b>IPS-E-TP-820 (1)</b>      <b>May 2010</b></p> <p>Engineering Standard for Cathodic Protection</p> <p><b>Bilingual</b></p> <p>Pages: 203</p>
<p><b>IPS-G-TP-335 (0)</b>      <b>Dec. 1997</b></p> <p>Material and Construction Standard for Three Layer Polyethylene Coating System</p> <p>Amendment No. 1      Aug. 2002 Amendment No. 2      Feb. 2007</p> <p>Pages: 43</p>
<p><b>IPS-I-TP-802 (0)</b>      <b>Dec. 1997</b></p> <p>Inspection Standard for Internal Corrosion Survey Methods &amp; Inhibitor Evaluation (for Pipeline &amp; for Plant)</p> <p>Amendment No. 1      Nov. 2011</p> <p>Pages: 62</p>
<p><b>IPS-I-TP-820 (0)</b>      <b>Dec. 1997</b></p> <p>Inspection Standard for Monitoring Cathodic Protection Systems</p> <p>Amendment No. 1      March 2006</p> <p>Pages: 120</p>

<p><b>IPS-M-TP-105 (0)</b>      <b>May 1993</b></p> <p>Material and Equipment Standard for Asphalt Mastic (Cold Applied)</p> <p>Amendment No. 1      June 1998 Amendment No. 2      Aug. 2006</p> <p>Pages: 9</p>
<p><b>IPS-M-TP-110 (0)</b>      <b>May 1993</b></p> <p>Material and Equipment Standard for Vinyl Paint (Aluminum) as Intermediate and Top Coat (Finish)</p> <p>Amendment No. 1      June 1998</p> <p>Pages: 8</p>
<p><b>IPS-M-TP-115 (0)</b>      <b>May 1993</b></p> <p>Material and Equipment Standard for Zinc Oxide, Iron Oxide, Raw Linseed Oil and Alkyd Primer</p> <p>Amendment No. 1      June 1998 Amendment No. 2      Nov. 2006 Amendment No. 3      Feb. 2012</p> <p>Pages: 8</p>
<p><b>IPS-M-TP-120 (0)</b>      <b>May 1993</b></p> <p>Material and Equipment Standard for Red Lead, Iron Oxide and Alkyd Intermediate Paint</p> <p>Amendment No. 1      June 1998 Amendment No. 2      Nov. 2006</p> <p>Pages: 8</p>
<p><b>IPS-M-TP-125 (0)</b>      <b>May 1993</b></p> <p>Material and Equipment Standard for White Alkyd Paint for Top Coat (Finish)</p> <p>Amendment No. 1      June 1998 Amendment No. 2      Feb. 2012</p> <p>Pages: 8</p>
<p><b>IPS-M-TP-130 (0)</b>      <b>May 1993</b></p> <p>Material and Equipment Standard for Colored Alkyd Paint for Top Coat (Finish) Except White</p> <p>Amendment No 1      Aug. 1998</p> <p>Pages: 8</p>

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<p><b>IPS-M-TP-135 (0)      May 1993</b></p> <p>Material and Equipment Standard for Chlorinated Rubber Paint for Top Coat (Finish)</p> <p>Amendment No. 1      Aug. 1998</p> <p>Pages: 9</p>
<p><b>IPS-M-TP-140 (0)      Aug. 1993</b></p> <p>Material and Equipment Standard for Chlorinated Rubber Paint for Intermediate Coat</p> <p>Amendment No. 1      Dec. 1998</p> <p>Pages: 8</p>
<p><b>IPS-M-TP-145 (0)      Nov. 1993</b></p> <p>Material and Equipment Standard for Chlorinated Rubber Inhibitive Primer</p> <p>Amendment No. 1      Jan. 1999</p> <p>Pages: 10</p>
<p><b>IPS-M-TP-150 (0)      Aug. 1993</b></p> <p>Material and Equipment Standard for Alkyd Paint (Aluminum) Leafing as Top Coat (Finish)</p> <p>Amendment No. 1      Jan. 1998 Amendment No. 2      Jan. 2012</p> <p>Pages: 8</p>
<p><b>IPS-M-TP-155 (0)      Aug. 1993</b></p> <p>Material and Equipment Standard for Alkyd Paint (Aluminum) Non - Leafing as Intermediate</p> <p>Amendment No. 1      Dec. 1998 Amendment No. 2      Apr. 2012</p> <p>Pages: 10</p>
<p><b>IPS-M-TP-160 (0)      Aug. 1993</b></p> <p>Material and Equipment Standard for Alkyd Paint (High Build Thixotropic Leafing Aluminum) as Top Coat (Finish)</p> <p>Amendment No. 1      Feb 1999 Amendment No. 2      May 2012</p> <p>Pages: 11</p>

<p><b>PS-M-TP-165 (0)      May 1993</b></p> <p>Material and Equipment Standard for Alkyd Paint (Black) as Intermediate and Top Coat (Finish)</p> <p>Amendment No. 1      Sep. 1998</p> <p>Pages: 7</p>
<p><b>IPS-M-TP-168 (1)      Feb. 2001</b></p> <p>Material Standard for Acrylic Silicone Finish Paint for Temperature Applications Up to 230°C</p> <p>Pages: 7</p>
<p><b>IPS-M-TP-170 (0)      May 1993</b></p> <p>Material and Equipment Standard for Vinyl Paint (Black) as Intermediate and Top Coat (Finish)</p> <p>Amendment No. 1      Sep. 1998</p> <p>Pages: 7</p>
<p><b>IPS-M-TP-175 (0)      May 1993</b></p> <p>Material and Equipment Standard for Silicone Alkyd Paint (White or Colored) as Top Coat (Finish)</p> <p>Amendment No. 1      Sep. 1998</p> <p>Pages: 10</p>
<p><b>IPS-M-TP-180 (0)      May 1993</b></p> <p>Material and Equipment Standard for Wash Primer (Basic Zinc Chromate-Vinyl Butyral)</p> <p>Amendment No. 1      Nov. 1998 Amendment No. 2      June 2012</p> <p>Pages: 14</p>
<p><b>IPS-M-TP-185 (0)      Oct. 1996</b></p> <p>Material and Equipment Standard for Vinyl Red Lead Primer</p> <p>Amendment No. 1      May 2000</p> <p>Pages: 9</p>

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<p><b>IPS-M-TP-190 (0)</b>      <b>Aug. 1993</b></p> <p>Material and Equipment Standard for Coal Tar Epoxy Polyamide Paint as Primer, Intermediate and Top Coat (Finish)</p> <p>Amendment No. 1      Feb. 1999 Amendment No. 2      Jan. 2013</p> <p>Pages: 14</p>
<p><b>IPS-M-TP-200 (0)</b>      <b>Aug. 1993</b></p> <p>Material and Equipment Standard for Vinyl Paint (White or Colored) as Primer, Intermediate and Top Coat (Finish)</p> <p>Amendment No. 1      Feb. 1999</p> <p>Pages: 8</p>
<p><b>IPS-M-TP-202 (0)</b>      <b>Oct. 1996</b></p> <p>Material and Equipment Standard for Tow Pack Amine-Adduct Cured Epoxy Paint as Primer, Intermediate and Top Coat</p> <p>Amendment No. 1      May 2000</p> <p>Pages: 6</p>
<p><b>IPS-M-TP-205 (0)</b>      <b>Aug. 1993</b></p> <p>Material and Equipment Standard for Zinc Rich Epoxy Paint (Organic Zinc-Rich) as Primer, Intermediate and Top Coat (Finish)</p> <p>Amendment No. 1      May 1999 Amendment No. 2      July 2012</p> <p>Pages: 11</p>
<p><b>IPS-M-TP-210 (0)</b>      <b>May 1993</b></p> <p>Material and Equipment Standard for Zinc Silicate (Inorganic Zinc-Rich) Paint as Primer, Intermediate and Top Coat</p> <p>Amendment No. 1      Nov. 1998</p> <p>Pages: 8</p>
<p><b>IPS-M-TP-215 (0)</b>      <b>Nov. 1993</b></p> <p>Material and Equipment Standard for Epoxy Polyamide Primer</p> <p>Amendment No. 1      May 1999</p> <p>Pages: 9</p>

<p><b>IPS-M-TP-220 (0)</b>      <b>May 1993</b></p> <p>Material and Equipment Standard for Epoxy Polyamide Paint as Intermediate Paint</p> <p>Amendment No. 1      Nov. 1998 Amendment No. 2      Aug. 2012</p> <p>Pages: 11</p>
<p><b>IPS-M-TP-225 (0)</b>      <b>May 1993</b></p> <p>Material and Equipment Standard for Epoxy Polyamide Paint as Top Coat (Finish)</p> <p>Amendment No. 1      Dec. 1998 Amendment No. 2      Mar. 2012</p> <p>Pages: 9</p>
<p><b>IPS-M-TP-230 (0)</b>      <b>Aug. 1993</b></p> <p>Material and Equipment Standard for Coal Tar Mastic (Cold Applied)</p> <p>Amendment No. 1      May 1999</p> <p>Pages: 7</p>
<p><b>IPS-M-TP-235 (0)</b>      <b>July 1994</b></p> <p>Material and Equipment Standard for Two Pack Aliphatic Polyurethane Paint as Top Coat (Finish)</p> <p>Amendment No. 1      July 1999 Amendment No. 2      Oct. 2012</p> <p>Pages: 12</p>
<p><b>IPS-M-TP-240 (0)</b>      <b>Oct. 1996</b></p> <p>Material and Equipment Standard for Two Pack Aliphatic Polyurethane Paint as Top Coat (Camouflage Colors)</p> <p>Amendment No. 1      July 2003</p> <p>Pages: 11</p>
<p><b>IPS-M-TP-250 (0)</b>      <b>Mar. 1996</b></p> <p>Material and Equipment Standard for Amine-Cured Epoxy Resin as Primer, Intermediate, and Top Coat for Atmospheric Environment</p> <p>Amendment No. 1      July 2000</p> <p>Pages: 6</p>

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<p><b>IPS-M-TP-275 (0)</b>      <b>Oct. 1996</b></p> <p>Material and Equipment Standard for Fast Drying Synthetic Primer for Use with Hot Applied Coal Tar or Bitumen (Asphalt) Enamels</p> <p>Amendment No. 1      July 2000</p> <p>Pages: 8</p>
<p><b>IPS-M-TP-280 (0)</b>      <b>July 1994</b></p> <p>Material and Equipment Standard for Coal Tar Primer (Cold Applied) for Use with Hot Applied Coal Tar Enamel (IPS-M-TP-290)</p> <p>Amendment No. 1      Aug. 1999</p> <p>Pages: 8</p>
<p><b>IPS-M-TP-285 (0)</b>      <b>July 1994</b></p> <p>Material and Equipment Standard for Bitumen Primer (Cold Applied) for Use with Hot Applied Bitumen Enamel (IPS-M-TP-295)</p> <p>Amendment No. 1      Aug. 1999 Amendment No. 2      Dec. 2013</p> <p>Pages: 11</p>
<p><b>IPS-M-TP-290 (0)</b>      <b>May 1993</b></p> <p>Material and Equipment Standard for Coal Tar Enamel (Hot Applied)</p> <p>Amendment No. 1      Jan. 1999</p> <p>Pages: 7</p>
<p><b>IPS-M-TP-295 (0)</b>      <b>July 1995</b></p> <p>Material Standard for Bitumen Enamel (Hot Applied)</p> <p>Amendment No. 1      Aug. 1999</p> <p>Pages: 9</p>
<p><b>IPS-M-TP-300 (0)</b>      <b>Aug. 1993</b></p> <p>Material and Equipment Standard for Glass Fiber Mat (Inner Wrap)</p> <p>Amendment No. 1      July. 1999 Amendment No. 2      Feb. 2013</p> <p>Pages: 10</p>

<p><b>IPS-M-TP-305 (0)</b>      <b>Aug. 1993</b></p> <p>Material and Equipment Standard for Coal Tar Impregnated Glass Fiber Mat for Outer Wrap</p> <p>Amendment No. 1      July 1999</p> <p>Pages: 7</p>
<p><b>IPS-M-TP-306 (0)</b>      <b>July 1994</b></p> <p>Material and Equipment Standard for Bitumen Impregnate Glass Fiber Mat for Outer wrap</p> <p>Amendment No. 1      Aug. 1999</p> <p>Pages: 8</p>
<p><b>IPS-M-TP-310 (0)</b>      <b>July 1994</b></p> <p>Material Standard for Cold Applied Laminated Plastic Tape as Inner Layer Tape for Tape Coating System of Buried Steel Pipes</p> <p>Amendment No. 1      Oct. 1999 Amendment No. 2      Oct. 2011</p> <p>Pages: 8</p>
<p><b>IPS-M-TP-311 (0)</b>      <b>July 1995</b></p> <p>Material Standard for Cold Applied Laminated Plastic Tape as Outer Layer Tape for Tape Coating System of Buried Steel Pipes</p> <p>Amendment No. 1      Oct. 1999 Amendment No. 2      Oct. 2011</p> <p>Pages: 7</p>
<p><b>IPS-M-TP-313 (0)</b>      <b>July 1995</b></p> <p>Material Standard for Hand-Applied Laminated Tape Suitable for Cold-Applied Tape Coating System</p> <p>Amendment No. 1      Nov. 1999 Amendment No. 2      Nov. 2012</p> <p>Pages: 9</p>
<p><b>IPS-M-TP-314 (0)</b>      <b>July 1994</b></p> <p>Material Standard for Hand Applied Laminated Tape (Suitable for Hot Applied Coating Systems)</p> <p>Amendment No. 1      Nov. 1999 Amendment No. 2      Nov. 2012</p> <p>Pages: 9</p>

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<p><b>IPS-M-TP-315 (0) July 1995</b></p> <p>Material Standard for Perforated Plastic Tape (as Rockshield) for Pipe Coating</p> <p>Amendment No. 1 Jan 2000</p> <p>Pages: 7</p>
<p><b>IPS-M-TP-316 (0) July 1995</b></p> <p>Material Standard for Plastic Grid (as Rockshield) for Pipe Coating</p> <p>Amendment No. 1 Jan. 2000</p> <p>Pages: 7</p>
<p><b>IPS-M-TP-317 (0) Jan. 1996</b></p> <p>Material Standard for Hand-Applied Petrolatum Tape and Primer</p> <p>Amendment No. 1 Oct. 2003</p> <p>Pages: 18</p>
<p><b>IPS-M-TP-318 (0) Oct. 1996</b></p> <p>Material Standard for Heat-Shrinkable Cross-Linked Polyethylene Coatings (Two Layers)</p> <p>Amendment No. 1 Dec. 2003</p> <p>Pages: 8</p>
<p><b>IPS-M-TP-321 (0) July 1995</b></p> <p>Material Standard for Primers (Ditch and Yard) for Use with Cold-Applied Laminated Plastic Tape (IPS-M-TP-310) for Tape Coating System of Buried Steel Pipes</p> <p>Amendment No. 1 Jan. 2000 Amendment No. 2 Dec. 2011</p> <p>Pages: 11</p>
<p><b>IPS-M-TP-322 (0) July 1995</b></p> <p>Material Standard for Primer to be Used with Hand-Applied Laminated Tape Suitable for Cold-Applied Tape Coating System</p> <p>Amendment No. 1 Feb. 1999 Amendment No. 2 Dec. 2012</p> <p>Pages: 11</p>

<p><b>IPS-M-TP-323 (0) July 1993</b></p> <p>Material Standard for Primer for Use with Hand-Applied Laminated Tape Suitable for Hot-Applied Tape Coating Systems</p> <p>Amendment No. 1 Feb. 2000</p> <p>Pages: 9</p>
<p><b>IPS-M-TP-672 (0) July 1995</b></p> <p>Material and Equipment Standard for Inhibitor, Anti-Icing for Use in Jet Turbine Fuels</p> <p>Amendment No. 1 Feb. 2000</p> <p>Pages: 6</p>
<p><b>IPS-M-TP-673 (0) July 1995</b></p> <p>Material Standard for Inhibitor for Hydrochloric Acid as Descaling and Pickling Solution</p> <p>Amendment No. 1 Feb. 2000</p> <p>Pages: 6</p>
<p><b>IPS-M-TP-675 (0) Dec. 1997</b></p> <p>Material and Equipment Standard for Inhibiting Package for Cooling Water Systems</p> <p>Amendment No. 1 Jan. 2004</p> <p>Pages: 10</p>
<p><b>IPS-M-TP-676 (0) Dec. 1997</b></p> <p>Material and Equipment Standard for Inhibitor for Hydrochloric Acid and HCl + HF as Descaling and Pickling Solution for Oil and Gas Wells</p> <p>Amendment No. 1 May 2001</p> <p>Pages: 6</p>
<p><b>IPS-M-TP-710 (0) Dec. 1997</b></p> <p>Material and Equipment Standard for Thermal Insulation</p> <p>Amendment No. 1 Feb. 2003</p> <p>Pages: 92</p>

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<p><b>IPS-M-TP-750 (0)</b>      <b>Dec. 1997</b></p> <p>Material and Equipment Standard for Cathodic Protection</p> <p>Amendment No. 1      Mar. 2006</p> <p>Pages: 182</p>


**THE LIST OF STANDARD DRAWINGS CLASSIFIED BY  
SUBJECT**

**Heating, Ventilation, Air Conditioning Cooling & Refrigeration**

<p><b>IPS-D-AR-010 (0)</b> Nov. 1997</p> <p>Abbreviations &amp; Symbols for HVAC &amp; R Drawings</p> <p>Sheet(s): 12 A4</p>
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<p><b>IPS-D-CE-175 (0)</b>      Nov. 1997</p> <p>Details of Precast Concrete Kerbs, Ditch Inverts and Road Channels</p> <p>Sheet(s):      1 A3</p>

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<p><b>IPS-D-CE-303 (0)</b> Sep. 2012</p> <p>Typical Chainlink Fencing (4.80 &amp; 1.20 Meter Wide)</p> <p>Sheet(s): 2 A3</p>
<p><b>IPS-D-CE-401 (0)</b> Nov. 1997</p> <p>Bund Walls Steps &amp; Pipe Sleeve</p> <p>Sheet(s): 2 A3</p>
<p><b>IPS-D-CE-411 (0)</b> Nov. 1997</p> <p>Half-Buried 1000 M Reinforced Concrete Reservoir</p> <p>Sheet(s): 7 A2</p>

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<p><b>IPS-D-CE-412 (0)</b>                      Nov. 1997</p> <p>30 M Elevated Water Tank</p> <p>Sheet(s):            4 A2</p>
<p><b>IPS-D-CE-500 (0)</b>                      Nov. 1997</p> <p>Classification of Sanitary Drain Systems</p> <p>Sheet(s):            3 A4</p>
<p><b>IPS-D-CE-501 (0)</b>                      Nov. 1997</p> <p>Discharge Stack &amp; Branch Connections</p> <p>Sheet(s):            2 A3</p>
<p><b>IPS-D-CE-502 (0)</b>                      Nov. 1997</p> <p>Ventilating Stacks &amp; Ventilating Pipes</p> <p>Sheet(s):            1 A3</p>
<p><b>IPS-D-CE-503 (0)</b>                      Nov. 1997</p> <p>Branch Discharge Pipes to Ranges of Appliance</p> <p>Sheet(s):            2 A4</p>


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<p><b>IPS-D-EL-100 (0)</b>      Nov. 1997</p> <p>Reference Drawing Electrical Standard Drawing List Category 200</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-101 (0)</b>      Nov. 1997</p> <p>Reference Drawing Electrical Symbols, Abbreviations, Device No. &amp; General Notes Category 100</p> <p>Sheet(s):      12 A3</p>
<p><b>IPS-D-EL-200 (0)</b>      Nov. 1997</p> <p>Reference Drawing Power Installation Details, Index Sheet Category 200</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-201 (0)</b>      Nov. 1997</p> <p>Reference Drawing Power Installation Details, LV Motor (Horizontal) Category 200</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-202 (0)</b>      Nov. 1997</p> <p>Reference Drawing Power Installation Details, MV Motor (Vertical) Category 200</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-203 (0)</b>      Nov. 1997</p> <p>Reference Drawing Power Installation Details, Motor Operated Valve (Ontank) Category 200</p> <p>Sheet(s):      1 A3</p>

<p><b>IPS-D-EL-204 (0)</b>      Nov. 1997</p> <p>Reference Drawing Power Installation Details, Power Receptacle Category 200</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-205 (0)</b>      Nov. 1997</p> <p>Reference Drawing Power Installation Details, Stub Up Conduit Pipe Category 200</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-206 (0)</b>      Nov. 1997</p> <p>Reference Drawing Power Installation Details, Cable Termination for Motor Category 200</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-207 (0)</b>      Nov. 1997</p> <p>Reference Drawing Power Installation Details Cable Identification Number &amp; Location Category 200</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-208 (0)</b>      Nov. 1997</p> <p>Reference Drawing Power Installation Details Cable Route Marker &amp; Location Category 200</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-209 (0)</b>      Nov. 1997</p> <p>Reference Drawing Power Installation Details Concrete Cable Duct Bank (Road Crossing) Category 200</p> <p>Sheet(s):      1 A3</p>

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<p><b>IPS-D-EL-210 (0)</b> Nov. 1997</p> <p>Reference Drawing Power Installation Details (Cable Trenches) Category 200</p> <p>Sheet(s): 2 A3</p>
<p><b>IPS-D-EL-211 (0)</b> Nov. 1997</p> <p>Reference Drawing Power Installation Details Category 200 Conduit &amp; Cable Supports</p> <p>Sheet(s): 1 A3</p>
<p><b>IPS-D-EL-213 (0)</b> Nov. 1997</p> <p>Reference Drawing Power Installation Details Category 200 Multiple Control Station</p> <p>Sheet(s): 1 A3</p>
<p><b>IPS-D-EL-215 (0)</b> Nov. 1997</p> <p>Reference Drawing Power Installation Details Category 200 Cable Room</p> <p>Sheet(s): 1 A3</p>
<p><b>IPS-D-EL-216 (0)</b> Nov. 1997</p> <p>Reference Drawing Power Installation Details Stanchion for Control Station Category 200</p> <p>Sheet(s): 1 A3</p>
<p><b>IPS-D-EL-217 (0)</b> Nov. 1997</p> <p>Reference Drawing Power Installation Details Installation of Stanchion for Control Station Category 200</p> <p>Sheet(s): 1 A3</p>

<p><b>IPS-D-EL-218 (0)</b> Nov. 1997</p> <p>Reference Drawing Power Installation Details Conduit Selection Chart Category 200</p> <p>Sheet(s): 1 A3</p>
<p><b>IPS-D-EL-219 (0)</b> Nov. 1997</p> <p>Reference Drawing Power Installation Details Cable Gland Selection Chart Category 200</p> <p>Sheet(s): 1 A3</p>
<p><b>IPS-D-EL-300 (0)</b> Nov. 1997</p> <p>Reference Drawing Lighting Installation Detail (Index Sheet) Category 300</p> <p>Sheet(s): 1 A3</p>
<p><b>IPS-D-EL-303 (0)</b> Nov. 1997</p> <p>Reference Drawing Lighting Installation Details Fluorescent Light (Mounted on Steel Beam) Category 300</p> <p>Sheet(s): 1 A3</p>
<p><b>IPS-D-EL-304 (0)</b> Nov. 1997</p> <p>Reference Drawing Lighting Installation Details Fluorescent Lighting Fixture Mounted on Steel Column Category 300</p> <p>Sheet(s): 1 A3</p>
<p><b>IPS-D-EL-305 (0)</b> Nov. 1997</p> <p>Reference Drawing Lighting Installation Details Fluorescent Light Fixture Mounted on Concrete Beam Category 300</p> <p>Sheet(s): 1 A3</p>

Electrical

<p><b>IPS-D-EL-306 (0)</b>      Nov. 1997</p> <p>Reference Drawing Lighting Installation Details Fluorescent Light Fixture Mounted on Concrete Structure Category 300</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-307 (0)</b>      Nov. 1997</p> <p>Reference Drawing Lighting Installation Details Fluorescent Light Fixture Mount Stand Type on Platform Category 300</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-308 (0)</b>      Nov. 1997</p> <p>Reference Drawing Lighting Installation Details Fluorescent Street Lighting Fixture Category 300</p> <p>Sheet(s):      5 A3</p>
<p><b>IPS-D-EL-309 (0)</b>      Nov. 1997</p> <p>Reference Drawing Mercury Vapor Lighting Fixture (Mounted on Steel Beam) Category 300</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-310 (0)</b>      Nov. 1997</p> <p>Reference Drawing Mercury Vapor Lighting Fixture (Mounted on Concrete Beam) Category 300</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-311 (0)</b>      Nov. 1997</p> <p>Reference Drawing Mercury Vapor Lighting Fixture (Bracket Type) Category 300</p> <p>Sheet(s):      1 A3</p>

<p><b>IPS-D-EL-312 (0)</b>      Nov. 1997</p> <p>Reference Drawing Flood Lighting Fixture (Mounted on Steel Structure) Category 300</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-313 (0)</b>      Nov. 1997</p> <p>Reference Drawing Flood Lighting Fixture (Mounted on Concrete Structure) Category 300</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-314 (0)</b>      Nov. 1997</p> <p>Reference Drawing Flood Lighting Fixture (Mounted on Handrail) Category 300</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-315 (0)</b>      Nov. 1997</p> <p>Reference Drawing Flood Lighting Fixture (Mounted on Steel Beam) Category 300</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-316 (0)</b>      Nov. 1997</p> <p>Reference Drawing Flood Lighting Fixture (Mounted on Pole) Category 300</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-317 (0)</b>      Nov. 1997</p> <p>Reference Drawing Air Craft warning light (Mounted on Stack) Category 300</p> <p>Sheet(s):      2 A3</p>

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<p><b>IPS-D-EL-318 (0)</b>      Nov. 1997</p> <p>Reference Drawing Garden Lighting Fixture Category 300</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-319 (0)</b>      Nov. 1997</p> <p>Reference Drawing Conduit Supports (Fixed on Ladder) Category 300</p> <p>Sheet(s):      2 A3</p>
<p><b>IPS-D-EL-320 (0)</b>      Nov. 1997</p> <p>Reference Drawing Junction Box Installation Category 300</p> <p>Sheet(s):      2 A3</p>
<p><b>IPS-D-EL-321 (0)</b>      Nov. 1997</p> <p>Reference Drawing Flood Lighting (Mounted on Tower) Category 300</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-400 (0)</b>      Nov. 1997</p> <p>Reference Drawing Grounding Installation Details (Index, Sheet) Category 400</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-401 (0)</b>      Nov. 1997</p> <p>Reference Drawing Grounding Installation Details (Grounding Rod) Category 400</p> <p>Sheet(s):      1 A3</p>

<p><b>IPS-D-EL-402 (0)</b>      Nov. 1997</p> <p>Reference Drawing Grounding Installation Details Branch Wire Connection Category 400</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-403 (0)</b>      Nov. 1997</p> <p>Reference Drawing Grounding Installation Details Motor (Horizontal) Category 400</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-404 (0)</b>      Nov. 1997</p> <p>Reference Drawing Grounding Installation Details Motor (Vertical) Category 400</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-407 (0)</b>      Nov. 1997</p> <p>Reference Drawing Grounding Installation Details Multiple Control Station Category 400</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-408(0)</b>      Nov. 1997</p> <p>Reference Drawing Grounding Installation Details Vertical Drum, Tower, Tank Category 400</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-409(0)</b>      Nov. 1997</p> <p>Reference Drawing Grounding Installation Details Gate, Fence Category 400</p> <p>Sheet(s):      1 A3</p>



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<p><b>IPS-D-EL-410 (0)</b>      Nov. 1997</p> <p>Reference Drawing Grounding Installation Details Pipe Rack Category 400</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-411 (0)</b>      Nov. 1997</p> <p>Reference Drawing Grounding Installation Details Lighting Pole Category 400</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-412 (0)</b>      Nov. 1997</p> <p>Reference Drawing Grounding Installation Details Loading Facilities Category 400</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-413 (0)</b>      Nov. 1997</p> <p>Reference Drawing Grounding Installation Details Earthing Lug Category 400</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-414 (0)</b>      Nov. 1997</p> <p>Reference Drawing Grounding Installation Details Stub Up Conduit Pipe Category 400</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-415 (0)</b>      Nov. 1997</p> <p>Reference Drawing Grounding Installation Details Conduit Support Category 400</p> <p>Sheet(s):      1 A3</p>

<p><b>IPS-D-EL-417 (0)</b>      Nov. 1997</p> <p>Reference Drawing Grounding Installation Details Selection Chart Category 400</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-800 (0)</b>      Nov. 1997</p> <p>Reference Drawing Electric Heat Tracing Index Sheet Category 800</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-801 (0)</b>      Nov. 1997</p> <p>Reference Drawing Electric Heat Tracing Details Process Area Category 800</p> <p>Sheet(s):      5 A3</p>
<p><b>IPS-D-EL-802 (0)</b>      Nov. 1997</p> <p>Reference Drawing Electric Tracing Typical View Category 800</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-EL-803 (0)</b>      Nov. 1997</p> <p>Reference Drawing Electric Heat Tracing Typical Wiring Category 800</p> <p>Sheet(s):      1 A3</p>

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<p><b>IPS-D-IN-010 (0)</b> Nov. 1997</p> <p>Instrument Standard Drawing Index List</p> <p>Sheet(s): 1 A4</p>
<p><b>IPS-D-IN-100 (0)</b> Nov. 1997</p> <p>Knife Edge Tube Skin Thermocouple Installation</p> <p>Sheet(s): 2 A3</p>
<p><b>IPS-D-IN-101 (0)</b> Nov. 1997</p> <p>Screwed Thermo well Detail Selection Chart for Thermocouples, RTD, BI Metallic T.M. T.W. Instrument Installation</p> <p>Sheet(s): 2 A3</p>
<p><b>IPS-D-IN-102 (0)</b> Nov. 1997</p> <p>Piping Arrangement at Orifice Plate</p> <p>Sheet(s): 5 A4</p>
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<p><b>IPS-D-IN-104 (0)</b> Nov. 1997</p> <p>Instrumentation Installation of Pressure Piping</p> <p>Sheet(s): 42 A4</p>

<p><b>IPS-D-IN-105 (0)</b> Nov. 1997</p> <p>Instrumentation Hook Up Details &amp; Materials (Installation of Air Piping)</p> <p>Sheet(s): 10 A4</p>
<p><b>IPS-D-IN-106 (0)</b> Nov. 1997</p> <p>Instrumentation Supports &amp; Materials (Installation &amp; Mounting)</p> <p>Sheet(s): 9 A4</p>
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<p><b>IPS-D-ME-003 (0)</b> Nov. 1997</p> <p>Lifting Lug to Lift Vessels Up to 200 Tons</p> <p>Sheet(s): 1 A3</p>
<p><b>IPS-D-ME-010 (0)</b> Nov. 1997</p> <p>Vertical Vessel Support Skirt Opening Details</p> <p>Sheet(s): 1 A3</p>
<p><b>IPS-D-ME-011 (0)</b> Nov. 1997</p> <p>Support Leg and Base Plate Details</p> <p>Sheet(s): 1 A3</p>
<p><b>IPS-D-ME-015 (0)</b> Nov. 1997</p> <p>Supports for Hot Insulation &amp; Fireproofing</p> <p>Sheet(s): 2 A3</p>
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<p><b>IPS-D-ME-140 (0)</b>      Nov. 1997</p> <p>Facilities for 12m<sup>3</sup> Nom. Capacity Fuel Storage Tank (2000 O.D. x 4000 Shell Length)</p> <p>Sheet(s):      1 A2</p>
<p><b>IPS-D-ME-200 (0)</b>      Nov. 1997</p> <p>Typical Details Vessel Ladders &amp; Platforms</p> <p>Sheet(s):      2 A0</p>
<p><b>IPS-D-ME-220 (0)</b>      Nov. 1997</p> <p>Tangential Distributor for Vertical Vessels</p> <p>Sheet(s):      1 A3</p>
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Piping & Pipelines

<p><b>IPS-D-PI-100 (0)</b> Nov. 1997</p> <p>Abbreviations of Piping &amp; Instrument Drawings</p> <p>Sheet(s): 31 A4</p>
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<p><b>IPS-D-PI-116 (0)</b> Nov. 1997</p> <p>Flat Type Temporary Suction Strainer</p> <p>Sheet(s): 1 A3</p>
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<p><b>IPS-D-PI-148 (0)</b>      Nov. 1997</p> <p>Ring &amp; Blind for DN 650 (26") DN 1500 (60") R.F. Flange</p> <p>Sheet(s):      1 A3</p>
<p><b>IPS-D-PI-149 (0)</b>      Nov. 1997</p> <p>Scraper Guide Bars for Pipeline Tees</p> <p>Sheet(s):      1 A3</p>

<p><b>IPS-D-PI-175 (0)</b>      Nov. 1997</p> <p>Pipeline Road Crossing Major &amp; Secondary Road Crossing</p> <p>Sheet(s):      2 A1</p>

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<p><b>IPS-D-TP-706 (0)</b> Nov. 1997</p> <p>Cathodic Protection System Horizontal Anode Ground Bed Installation (Typical)</p> <p>Sheet(s): 2 A3</p>
<p><b>IPS-D-TP-707 (0)</b> Nov. 1997</p> <p>Cathodic Protection System Water-Type Deep-Well Grounded Installation (Typical)</p> <p>Sheet(s): 2 A3</p>
<p><b>IPS-D-TP-708 (0)</b> Nov. 1997</p> <p>Cathodic Protection System Construction Detail of Rope &amp; Cable Drum for Water Type Deep Well Ground Beds</p> <p>Sheet(s): 2 A3</p>
<p><b>IPS-D-TP-709 (0)</b> Nov. 1997</p> <p>Cathodic Protection System Fencing &amp; Foundation Detail For C.P. Stations (Transmission Pipeline)</p> <p>Sheet(s): 2 A3</p>
<p><b>IPS-D-TP-710 (0)</b> Nov. 1997</p> <p>Cathodic Protection System Transmission Line Potential Test Point &amp; Pipe Marker</p> <p>Sheet(s): 2 A3</p>
<p><b>IPS-D-TP-711 (0)</b> Nov. 1997</p> <p>Cathodic Protection System Cluster Magnesium Anode Installation</p> <p>Sheet(s): 2 A3</p>



Technical Protection

<p><b>IPS-D-TP-712 (0)</b>      Nov. 1997</p> <p>Cathodic Protection System Combined Marker, Test Point &amp; Bond Box for Sacrificial Anodes</p> <p>Sheet(s):      2 A3</p>
<p><b>IPS-D-TP-713 (0)</b>      Nov. 1997</p> <p>Cathodic Protection System Bore Well Ground Bed Installation (Dry Type)</p> <p>Sheet(s):      2 A3</p>
<p><b>IPS-D-TP-714 (0)</b>      Nov. 1997</p> <p>Cathodic Protection System Installation Details of Magnesium Ribbon Anode Status: Current</p> <p>Sheet(s):      2 A3</p>
<p><b>IPS-D-TP-715 (0)</b>      Nov. 1997</p> <p>Cathodic Protection System Transformer/Rectifier Installation with Deep Well Type Ground Bed</p> <p>Sheet(s):      2 A3</p>
<p><b>IPS-D-TP-716 (0)</b>      Nov. 1997</p> <p>Cathodic Protection System Transmission Line Cased Crossing Potential Test Point &amp; Pipe Marker</p> <p>Sheet(s):      2 A3</p>
<p><b>IPS-D-TP-717 (0)</b>      Nov. 1997</p> <p>Cathodic Protection System Earthing System (Typical)</p> <p>Sheet(s):      2 A3</p>

<p><b>IPS-D-TP-718 (0)</b>      Nov. 1997</p> <p>Cathodic Protection System Fencing &amp; Foundation Details for C.P. Station Located at City Limits</p> <p>Sheet(s):      2 A3</p>

**THE LIST OF WITHDRAWN STANDARDS CLASSIFIED BY  
SUBJECT**

**Heating, Ventilation, Air Conditioning Cooling & Refrigeration**

<p><b>IPS-C-AR-110 (0)</b> July 1995      Withdrawn</p> <p>Amendment No. 1      May 1999                  Amendment No. 2      Oct. 2003</p> <p><b>See: IPS-C-AR-110 (1)</b> Dec. 2009</p>
<p><b>IPS-E-AR-100 (0)</b> Jan.1996      Withdrawn</p> <p>Amendment No. 1      Jan. 2001                  Amendment No. 2      May 2005</p> <p><b>See: IPS-E-AR-100 (1)</b> July 2009</p>
<p><b>IPS-E-AR-120 (0)</b> Mar. 1996      Withdrawn</p> <p>Amendment No. 1      Nov. 2000                  Amendment No. 2      May 2004</p> <p><b>See: IPS-E-AR-120 (1)</b> Nov. 2009</p>
<p><b>IPS-M-AR-105 (0)</b> July 1994      Withdrawn</p> <p>Amendment No. 1      Sep.1998                  Amendment No. 2      July 2003</p> <p><b>See: IPS-M-AR-105 (1)</b> July 2009</p>
<p><b>IPS-M-AR-125 (0)</b> May 1993      Withdrawn</p> <p>Amendment No. 1      June 1998                  Amendment No. 2      June 2003</p> <p><b>See: IPS-M-AR-125 (1)</b> July 2009</p>
<p><b>IPS-M-AR-145 (0)</b> Mar. 1996      Withdrawn</p> <p>Amendment No. 1      May 2001                  Amendment No. 2      July 2006</p> <p><b>See: IPS-M-AR-145 (1)</b> Jan. 2010</p>

<p><b>IPS-M-AR-225 (0)</b> Oct. 1996      Withdrawn</p> <p>Amendment No. 1      July 2002                  Amendment No. 2      Aug. 2006</p> <p><b>See: IPS-M-AR-225 (1)</b> Jan. 2010</p>

Civil

**IPS-C-CE-132 (0)** Jan. 1996      Withdrawn  
 Amendment No. 1      Oct. 2004  
**See: IPS-C-CE-132 (1)** July 2009

**IPS-C-CE-200 (0)** Oct. 1996      Withdrawn  
 Amendment No. 1      Dec. 1998  
 Amendment No. 2      Aug. 2005  
**See: IPS-C-CE-200 (1)** Feb. 2009

**IPS-C-CE-210 (0)** May 1996      Withdrawn  
 Amendment No. 1      Nov. 1997  
 Amendment No. 2      Nov. 2005  
**See: IPS-C-CE-210 (1)** Feb. 2009

**IPS-E-CE-120 (0)** July 1995      Withdrawn  
 Amendment No. 1      Nov. 1997  
 Amendment No. 2      Aug. 2004  
**See: IPS-E-CE-120 (1)** May 2009

**IPS-E-CE-130 (0)** Jan. 1996      Withdrawn  
 Amendment No. 1      Nov. 1997  
 Amendment No. 2      Oct. 2004  
**See: IPS-E-CE-130 (1)** June 2009

**IPS-E-CE-140 (0)** Oct. 1996      Withdrawn  
 Amendment No. 1      May 1998  
 Amendment No. 2      Nov. 2004  
**See: IPS-E-CE-140 (1)** July 2009

**IPS-E-CE-200 (0)** Mar. 1996      Withdrawn  
 Amendment No. 1      Dec. 1998  
 Amendment No. 2      June 2005  
**See: IPS-E-CE-200 (1)** Nov. 2008

**IPS-E-CE-210 (0)** Oct. 1996      Withdrawn  
 Amendment No. 1      Nov. 1997  
 Amendment No. 2      Sep. 2005  
**See: IPS-E-CE-210 (1)** Feb. 2009

**IPS-E-CE-500 (0)** Aug. 1993      Withdrawn  
 Amendment No. 1      Mar. 1998  
 Amendment No. 2      May 2005  
**See: IPS-E-CE-500 (1)** Jan. 2009

**IPS-G-CE-470 (0)** July 1995      Withdrawn  
 Amendment No. 1      May 1999  
**See: IPS-G-CE-470 (1)** Feb. 2012

**IPS-M-CE-105(0)** Dec. 1997      Withdrawn  
**IPS-M-CE-105(1)** Mar. 2003      Withdrawn  
**See: IPS-M-CE-105(2)** Nov. 2008

**IPS-M-CE-165(0)** Mar. 1996      Withdrawn  
**IPS-M-CE-105(1)** Mar. 2003      Withdrawn  
**See: IPS-M-CE-105(2)** Nov. 2008

**Electrical**

<p><b>IPS-C-EL-115 (0)</b> Dec. 1997      Withdrawn</p> <p><b>See: IPS-C-EL-115 (1)</b> July 2009</p>
<p><b>IPS-E-EL-100 (0)</b> Dec. 1997      Withdrawn</p> <p><b>See: IPS-E-EL-100 (1)</b> Feb. 2012</p>
<p><b>IPS-E-EL-110 (0)</b> Dec. 1994      Withdrawn</p> <p><b>See: IPS-E-EL-110 (1)</b> Mar. 2012</p>
<p><b>IPS-E-EL-160 (0)</b> May 1997      Withdrawn</p> <p><b>See: IPS-E-EL-160 (1)</b> Jan. 2010</p>
<p><b>IPS-I-EL-215 (0)</b> Dec. 1997      Withdrawn</p> <p><b>See: IPS-I-EL-215 (1)</b> May 2009</p>
<p><b>IPS-I-EL-217 (0)</b> Mar. 1996      Withdrawn</p> <p><b>See: IPS-I-EL-217 (1)</b> Mar. 2012</p>

<p><b>IPS-M-EL-132 (0)</b> July 1994      Withdrawn</p> <p><b>IPS-M-EL-131 (1)</b> June 2005      Withdrawn</p> <p><b>See: IPS-M-EL-131 (2)</b> Nov. 2009</p>
<p><b>IPS-M-EL-132 (0)</b> July 1994      Withdrawn</p> <p><b>IPS-M-EL-132 (1)</b> June 2005      Withdrawn</p> <p><b>See: IPS-M-EL-132 (2)</b> Dec. 2009</p>
<p><b>IPS-M-EL-138 (0)</b> July 1994      Withdrawn</p> <p><b>See: IPS-M-EL-138 (1)</b> Mar. 2013</p>
<p><b>IPS-M-EL-140 (0)</b> Aug. 1993      Withdrawn</p> <p><b>IPS-M-EL-143 (1)</b> June. 2004      Withdrawn</p> <p><b>See: IPS-M-EL-143 (2)</b> Mar. 2009</p>
<p><b>IPS-M-EL-140 (0)</b> Aug. 1993      Withdrawn</p> <p><b>See: IPS-M-EL-144 (1)</b> June. 2004</p>
<p><b>IPS-M-EL-142 (0)</b> May 1993      Withdrawn</p> <p><b>IPS-M-EL-143 (1)</b> June. 2004      Withdrawn</p> <p><b>See: IPS-M-EL-143 (2)</b> Mar. 2009</p>

Electrical

**IPS-M-EL-150 (0)** Nov. 1993      Withdrawn  
**IPS-M-EL-150 (1)** June 2002      Withdrawn  
**See: IPS-M-EL-151 (1)** Dec. 2005

**IPS-M-EL-150 (0)** Nov. 1993      Withdrawn  
**IPS-M-EL-150 (1)** June 2002      Withdrawn  
**IPS-M-EL-152 (1)** Dec. 2005      Withdrawn  
**See: IPS-M-EL-152 (2)** Oct. 2009

**IPS-M-EL-155 (0)** May 1993      Withdrawn  
 Amendment No. 1      Dec. 1997  
**See: IPS-M-EL-155 (1)** June 2009

**IPS-M-EL-165 (0)** May 1993      Withdrawn  
**IPS-M-EL-143 (1)** June. 2004      Withdrawn  
**See: IPS-M-EL-143 (2)** Mar. 2009

**IPS-M-EL-172 (0)** Nov. 1993      Withdrawn  
**IPS-M-EL-174 (1)** July 2003      Withdrawn  
**See: IPS-M-EL-174 (2)** Nov. 2008

**IPS-M-EL-174 (0)** May 1993      Withdrawn  
**IPS-M-EL-174 (1)** July 2003      Withdrawn  
**See: IPS-M-EL-174 (2)** Nov. 2008

**IPS-M-EL-176 (0)** July 1994      Withdrawn  
**IPS-M-EL-176 (1)** July 2003      Withdrawn  
**See: IPS-M-EL-176 (2)** Apr. 2009

**IPS-M-EL-180(0)** Aug. 1993      Withdrawn  
**IPS-M-EL-181 (1)** Sep. 2006      Withdrawn  
**See: IPS-M-EL-181 (2)** Jan. 2010

**IPS-M-EL-185 (0)** May 1993      Withdrawn  
**See: IPS-M-EL-161 (1)** Dec. 2007

**IPS-M-EL-190 (0)** Jan. 1996      Withdrawn  
**See: IPS-M-EL-190 (1)** July 2009

**IPS-M-EL-270(1)** Jan. 1999      Withdrawn  
**See: IPS-M-EL-271 (1)** July 2003  
**IPS-M-EL-272 (1)** July 2003  
**IPS-M-EL-273 (1)** July 2003

**IPS-M-EL-290(0)** May 1997      Withdrawn  
**See: IPS-M-EL-161 (1)** Dec. 2007

General Machineries

<p><b>IPS-I-GM-335 (0)</b>      May 1997</p> <p>Changed to :</p> <p><b>IPS-I-GN-335 (0)</b>      May 1997</p>
<p><b>IPS-I-GM-350 (0)</b>      Dec. 1997</p> <p>Changed to :</p> <p><b>IPS-I-GN-350 (0)</b>      Dec. 1997</p>
<p><b>IPS-M-GM-110 (0)</b>      Dec. 1997</p> <p>Changed to :</p> <p><b>IPS-M-GN-110 (0)</b>      Dec. 1997</p>
<p><b>IPS-M-GM-140 (0)</b>      July 1997</p> <p>Changed to :</p> <p><b>IPS-M-GN-240 (0)</b>      July 1997</p>
<p><b>IPS-M-GM-150 (0)</b>      Dec. 2002</p> <p>Changed to :</p> <p><b>IPS-M-GN-150 (0)</b>      Dec. 2002</p>
<p><b>IPS-M-GM-170 (0)</b>      Withdrawn  <b>IPS-M-GM-170 (1)</b>      Feb. 2005</p> <p>Changed to :</p> <p><b>IPS-M-GN-160 (1)</b>      Feb. 2005</p>

<p><b>IPS-M-GM-210 (0)</b>      July 1997</p> <p>Changed to :</p> <p><b>IPS-M-GN-210 (0)</b>      July 1997</p>
<p><b>IPS-M-GM-260 (0)</b>      July 1997</p> <p>Changed to :</p> <p><b>IPS-M-GN-260 (0)</b>      July 1997</p>
<p><b>IPS-M-GM-340 (0)</b>      July 1997</p> <p>Changed to :</p> <p><b>IPS-M-GN-340 (0)</b>      July 1997</p>
<p><b>IPS-M-GM-350 (0)</b>      Withdrawn  <b>IPS-M-GM-350 (1)</b>      Mar. 2005</p> <p>Changed to :</p> <p><b>IPS-M-GN-350 (1)</b>      Mar. 2005</p>
<p><b>IPS-M-GM-360 (0)</b>      July 1995</p> <p>Changed to :</p> <p><b>IPS-M-GN-330 (0)</b>      July 1995</p>
<p><b>IPS-M-GM-365 (0)</b>      Withdrawn  <b>IPS-M-GM-365 (1)</b>      Sep. 2003</p> <p>Changed to :</p> <p><b>IPS-M-GN-365 (1)</b>      Sep. 2003</p>

**General Machineries**

<p><b>IPS-M-GM-370 (0)</b>      Withdrawn  <b>IPS-G-GM-370 (1)</b>      June 2004</p> <p>Changed to :</p> <p><b>IPS-G-GN-370 (1)</b>      June 2004</p>		
<p><b>IPS-M-GM-375 (0)</b>      Dec. 1997</p> <p>Changed to :</p> <p><b>IPS-M-GN-375 (0)</b>      Dec. 1997</p>		
<p><b>IPS-M-GM-450 (0)</b>      Mar. 1996</p> <p>Changed to :</p> <p><b>IPS-M-GN-450 (0)</b>      Mar. 1996</p>		
<p><b>IPS-M-GM-470 (0)</b>      May 1997</p> <p>Changed to :</p> <p><b>IPS-M-GN-470 (0)</b>      May 1997</p>		



General

<p><b>IPS-E-GN-000 (0)</b> Withdrawn  <b>IPS-E-GN-000 (1)</b> Jan. 2001 Withdrawn  <b>IPS-E-GN-000 (2)</b> Jan. 2004 Withdrawn  <b>IPS-E-GN-000 (3)</b> Mar. 2005 Withdrawn  <b>IPS-E-GN-000 (4)</b> Oct. 2007 Withdrawn  <b>IPS-E-GN-000 (5)</b> Sep. 2010 Withdrawn  <b>IPS-E-GN-000 (6)</b> Sep. 2012 Withdrawn  <b>See: IPS-E-GN-000 (7)</b> July 2013</p>	<p><b>IPS-M-GN-140 (0)</b> Dec. 1997 Withdrawn   <b>See: IPS-M-GN-140 (1)</b> July 2004</p>
<p><b>IPS-E-GN-100 (0)</b> Aug. 1993 Withdrawn   <b>See: IPS-E-GN-100 (1)</b> Oct. 2011</p>	<p><b>IPS-M-GN-150 (0)</b> Jan. 1996 Withdrawn   Amendment No. 1 Dec. 2002   <b>See: IPS-M-GN-150 (1)</b> May 2009</p>
<p><b>IPS-E-GN-120 (0)</b> Dec. 1997 Withdrawn   <b>See: IPS-E-GN-120 (1)</b> Jan. 2012</p>	<p><b>IPS-M-GN-170 (0)</b> Dec. 1997 Withdrawn   <b>IPS-M-GN-170 (1)</b> Jan. 2005 Withdrawn   <b>See: IPS-M-GN-170 (2)</b> Dec. 2008</p>
<p><b>IPS-G-GN-180 (0)</b> Dec. 1997 Withdrawn  <b>IPS-G-GN-180 (1)</b> Mar. 2005 Withdrawn   <b>See: IPS-G-GN-180 (2)</b> Jan. 2009</p>	<p><b>IPS-M-GN-210 (0)</b> July 1997 Withdrawn   <b>See: IPS-M-GN-210 (1)</b> May 2009</p>
<p><b>IPS-I-GN-335 (0)</b> May 1997 Withdrawn   Amendment No. 1 Mar. 2005   <b>See: IPS-I-GN-335 (1)</b> Dec. 2009</p>	<p><b>IPS-M-GN-350 (1)</b> Mar. 2005 Withdrawn   <b>See: IPS-M-GN-350 (2)</b> Nov. 2008</p>
<p><b>IPS-M-GN-130 (0)</b> Dec. 1997 Withdrawn  <b>IPS-M-GN-130 (1)</b> Nov. 2004 Withdrawn   <b>See: IPS-M-GN-130 (2)</b> Nov. 2008</p>	<p><b>IPS-M-GN-360 (0)</b> Dec. 1997 Withdrawn   Amendment No. 1 Feb. 2003   <b>See: IPS-M-GN-360 (1)</b> July 2009</p>

**General**

<p><b>IPS-M-GN-365 (1)</b> Sep. 2003      Withdrawn  <b>See: IPS-M-GN-365 (2)</b> Jan. 2009</p>		
<p><b>IPS-M-GN-375 (0)</b> Dec. 1997      Withdrawn  <b>See: IPS-M-GN-375 (1)</b> July 2009</p>		
<p><b>IPS-M-GN-450 (0)</b> Mar. 1996      Withdrawn  Amendment No. 1      Oct. 2003  <b>See: IPS-M-GN-450 (1)</b> July 2009</p>		

Instrument

<p><b>IPS-C-IN-100 (0)</b> Dec. 1997      Withdrawn</p> <p><b>See: IPS-C-IN-100 (1)</b> Jan. 2005</p>	<p><b>IPS-E-IN-100 (0)</b> Dec. 1997      Withdrawn</p> <p><b>See: IPS-E-IN-100 (1)</b> Jan. 2005</p>
<p><b>IPS-C-IN-110 (0)</b> Aug. 1993      Withdrawn</p> <p>Amendment No. 1      Oct. 1997</p> <p><b>See: IPS-C-IN-110 (1)</b> Sep. 2008</p>	<p><b>IPS-E-IN-105 (0)</b> Dec. 1997      Withdrawn</p> <p><b>See: IPS-E-IN-105 (1)</b> Jan. 2012</p>
<p><b>IPS-C-IN-120 (0)</b> May 1993      Withdrawn</p> <p>Amendment No. 1      Oct. 1997</p> <p><b>See: IPS-C-IN-120 (1)</b> Mar. 2009</p>	<p><b>IPS-E-IN-110 (0)</b> Aug. 1993      Withdrawn</p> <p>Amendment No. 1      Oct. 1997</p> <p><b>See: IPS-E-IN-110 (1)</b> July 2009</p>
<p><b>IPS-C-IN-190 (0)</b> Jan. 1996      Withdrawn</p> <p><b>See: IPS-C-IN-190 (1)</b> Mar. 2010</p>	<p><b>IPS-E-IN-120 (0)</b> May. 1993      Withdrawn</p> <p>Amendment No. 1      Oct. 1997</p> <p><b>See: IPS-E-IN-120 (1)</b> May 2010</p>
<p><b>IPS-C-IN-200 (0)</b> May 1993      Withdrawn</p> <p>Amendment No. 1      June 1998</p> <p><b>See: IPS-G-IN-200(1)</b> June 2003</p>	<p><b>IPS-E-IN-130 (0)</b> Nov. 1993      Withdrawn</p> <p>Amendment No. 1      Oct. 1997</p> <p><b>See: IPS-E-IN-130 (1)</b> Jan. 2013</p>
<p><b>IPS-C-IN-240 (0)</b> May 1997      Withdrawn</p> <p><b>See: IPS-C-IN-240 (1)</b> Jan. 2005</p>	<p><b>IPS-E-IN-140 (0)</b> Dec. 1994      Withdrawn</p> <p>Amendment No. 1      Jan. 1999</p> <p><b>See: IPS-E-IN-140 (1)</b> Feb. 2013</p>

**Instrument**

<p><b>IPS-E-IN-190 (0)</b> July 1995      Withdrawn</p> <p><b>IPS-E-IN-190 (1)</b> Jan. 2001      Withdrawn</p> <p><b>See: IPS-E-IN-190 (2)</b> Jan. 2010</p>	<p><b>IPS-G-IN-230 (0)</b> Dec. 1997      Withdrawn</p> <p><b>See: IPS-G-IN-230 (1)</b> Nov. 2012</p>
<p><b>IPS-E-IN-200 (0)</b> May 1993      Withdrawn</p> <p>Amendment No. 1      June 1998</p> <p><b>See: IPS-G-IN-200 (1)</b> June 2003</p>	<p><b>IPS-G-IN-220 (0)</b> July 1997      Withdrawn</p> <p>Amendment No. 1      Aug.2005</p> <p><b>See: IPS-G-IN-220 (1)</b> Apr. 2010</p>
<p><b>IPS-E-IN-230 (0)</b> Nov. 1993      Withdrawn</p> <p><b>See: IPS-G-IN-230 (0)</b> Dec. 1997</p>	<p><b>IPS-G-IN-260(0)</b> July 1997      Withdrawn</p> <p><b>See: IPS-G-IN-260 (1)</b> May 2006</p>
<p><b>IPS-E-IN-240 (0)</b> May 1997      Withdrawn</p> <p><b>IPS-E-IN-240 (1)</b> Jan. 2005      Withdrawn</p> <p><b>See: IPS-E-IN-240 (2)</b> Nov. 2012</p>	<p><b>IPS-G-IN-270 (0)</b> Dec. 1997      Withdrawn</p> <p><b>IPS-G-IN-270 (1)</b> Nov. 2006      Withdrawn</p> <p><b>See: IPS-G-IN-270 (2)</b> Apr. 2010</p>
<p><b>IPS-G-IN-160 (0)</b> Oct. 1996      Withdrawn</p> <p><b>See: IPS-C-IN-160 (1)</b> Aug. 2003  <b>IPS-E-IN-160 (1)</b> Aug. 2003  <b>IPS-M-IN-160 (1)</b> Aug. 2003</p>	<p><b>IPS-G-IN-300 (0)</b> Dec. 1997      Withdrawn</p> <p><b>See: IPS-G-IN-300 (1)</b> Sep. 2006</p>
<p><b>IPS-G-IN-210 (0)</b> July 1994      Withdrawn</p> <p>Amendment No. 1      Apr. 1999</p> <p><b>See: IPS-G-IN-210 (1)</b> Apr. 2010</p>	<p><b>IPS-I-IN-115 (0)</b> July 1995      Withdrawn</p> <p><b>See: IPS-I-IN-115 (1)</b> Feb. 2005</p>

**Instrument**

<p><b>IPS-M-IN-100 (0)</b> Dec. 1997      Withdrawn</p> <p><b>See: IPS-I-IN-100 (1)</b> Jan. 2005</p>	<p><b>IPS-M-IN-190 (0)</b> Jan. 1996      Withdrawn</p> <p><b>IPS-M-IN-190 (1)</b> Dec. 2006      Withdrawn</p> <p><b>See: IPS-M-IN-190 (2)</b> Feb. 2010</p>
<p><b>IPS-M-IN-110 (0)</b> May 1993      Withdrawn</p> <p>Amendment No. 1      Oct. 1997</p> <p><b>See: IPS-M-IN-110 (1)</b> Jan. 2010</p>	<p><b>IPS-M-IN-200 (0)</b> May 1993      Withdrawn</p> <p>Amendment No. 1      June 1998</p> <p><b>See: IPS-G-IN-200 (1)</b> June 2003</p>
<p><b>IPS-M-IN-120 (0)</b> May 1993      Withdrawn</p> <p>Amendment No. 1      Oct. 1997</p> <p><b>See: IPS-M-IN-120 (1)</b> May 2010</p>	<p><b>IPS-M-IN-220 (0)</b> July 1997      Withdrawn</p> <p><b>See: IPS-M-IN-220 (1)</b> Apr. 2010</p>
<p><b>IPS-M-IN-130 (0)</b> Nov. 1993      Withdrawn</p> <p><b>See: IPS-M-IN-130 (1)</b> Jan. 2013</p>	<p><b>IPS-M-IN-250 (0)</b> Mar. 1996      Withdrawn</p> <p>Amendment No. 1      Mar. 2003</p> <p><b>See: IPS-M-IN-250 (1)</b> Mar. 2004</p>
<p><b>IPS-M-IN-140 (0)</b> July 1994      Withdrawn</p> <p><b>See: IPS-M-IN-140 (1)</b> Mar. 2013</p>	<p><b>IPS-M-IN-260 (0)</b> Mar. 1996      Withdrawn</p> <p><b>See: IPS-M-IN-260 (1)</b> May 2006</p>
<p><b>IPS-M-IN-150 (0)</b> Oct. 1996      Withdrawn</p> <p><b>See: IPS-M-IN-150 (1)</b> Jan. 2007</p>	<p><b>IPS-M-IN-280 (0)</b> Oct. 1996      Withdrawn</p> <p><b>See: IPS-M-IN-280 (1)</b> Feb. 2007</p>

Fixed Mechanical Equipment

<p><b>IPS-C-ME-100 (0)</b> May 1993      Withdrawn          Amendment No. 1      July 1998  <b>See: IPS-G-ME-100 (1)</b> Nov. 2004</p>	<p><b>IPS-G-ME-170 (0)</b> Dec. 1997      Withdrawn  <b>IPS-G-ME-170 (1)</b> Sep. 2003      Withdrawn  <b>See: IPS-G-ME-170 (2)</b> July 2009</p>
<p><b>IPS-C-ME-110 (0)</b> May 1993      Withdrawn          Amendment No. 1      Dec. 1998  <b>See: IPS-G-ME-110 (1)</b> Oct. 2005</p>	<p><b>IPS-G-ME-180 (0)</b> Mar. 1996      Withdrawn  <b>IPS-G-ME-180 (1)</b> Sep. 2003      Withdrawn  <b>See: IPS-G-ME-180 (2)</b> Nov. 2009</p>
<p><b>IPS-E-ME-100 (0)</b> May 1993      Withdrawn          Amendment No. 1      July 1998  <b>See: IPS-G-ME-100 (1)</b> Nov. 2004</p>	<p><b>IPS-G-ME-200 (0)</b> Oct. 1996      Withdrawn  <b>See: IPS-G-ME-200 (1)</b> Oct. 2001</p>
<p><b>IPS-E-ME-110 (0)</b> May 1993      Withdrawn          Amendment No. 1      Dec. 1998  <b>See: IPS-G-ME-110 (1)</b> Oct. 2005</p>	<p><b>IPS-G-ME-210 (0)</b> Mar. 1996      Withdrawn  <b>IPS-G-ME-210 (1)</b> Mar. 2006      Withdrawn  <b>See: IPS-G-ME-210 (2)</b> Feb. 2010</p>
<p><b>IPS-G-ME-150 (0)</b> Jan. 1996      Withdrawn          Amendment No. 1      Feb. 2001  <b>See: IPS-G-ME-150 (1)</b> Jan. 2010</p>	<p><b>IPS-G-ME-220 (0)</b> July 1994      Withdrawn          Amendment No. 1      May 1998  <b>IPS-G-ME-220 (1)</b> May 2007      Withdrawn  <b>See: IPS-G-ME-220 (2)</b> Jan. 2010</p>
<p><b>IPS-G-ME-160 (0)</b> May 1997      Withdrawn  <b>IPS-G-ME-160 (1)</b> Mar. 2006      Withdrawn  <b>See: IPS-G-ME-160 (2)</b> Oct. 2009</p>	<p><b>IPS-G-ME-230 (0)</b> Nov. 1993      Withdrawn          Amendment No. 1      May 1998  <b>IPS-G-ME-230 (1)</b> June 2006      Withdrawn  <b>See: IPS-G-ME-230 (2)</b> Aug. 2009</p>

**Fixed Mechanical Equipment**

<p><b>IPS-G-ME-245 (0)</b> Jan. 1996      Withdrawn  <b>See: IPS-G-ME-245 (1)</b> Mar. 2003</p>		
<p><b>IPS-G-ME-250 (0)</b> Mar. 1996      Withdrawn  <b>IPS-G-ME-250 (1)</b> Mar. 2003      Withdrawn  <b>See: IPS-G-ME-250 (2)</b> Oct. 2009</p>		
<p><b>IPS-G-ME-253 (0)</b> July 1997      Withdrawn  <b>See: IPS-G-ME-253 (1)</b> Feb. 2005</p>		
<p><b>IPS-M-ME-100 (0)</b> May 1993      Withdrawn  Amendment No. 1      July 1998  <b>See: IPS-G-ME-100 (1)</b> Nov. 2004</p>		
<p><b>IPS-M-ME-110 (0)</b> May 1993      Withdrawn  Amendment No. 1      Dec. 1998  <b>See: IPS-G-ME-110 (1)</b> Oct. 2005</p>		

Piping & pipelines

<p><b>IPS-C-PI-140 (0)</b> Dec. 1997      Withdrawn Amendment No. 1      Dec. 2003 <b>See: IPS-C-PI-140 (1)</b> May 2009</p>	<p><b>IPS-C-PI-410 (0)</b> May 1997      Withdrawn Amendment No. 1      Dec. 2006 <b>See: IPS-C-PI-410 (1)</b> Dec. 2009</p>
<p><b>IPS-C-PI-240 (0)</b> Dec. 1997      Withdrawn <b>IPS-C-PI-240 (1)</b> Aug. 2005      Withdrawn <b>See: IPS-C-PI-240 (2)</b> Nov. 2008</p>	<p><b>IPS-E-PI-140 (0)</b> Dec. 1997      Withdrawn Amendment No. 1      Jan. 2004 <b>See: IPS-E-PI-140 (1)</b> July 2009</p>
<p><b>IPS-C-PI-270 (0)</b> Nov. 1993      Withdrawn <b>IPS-C-PI-270 (1)</b> June 2001      Withdrawn <b>See: IPS-C-PI-270 (2)</b> Nov. 2009</p>	<p><b>IPS-E-PI-221 (0)</b> Jan. 2000      Withdrawn <b>See: IPS-E-PI-221 (1)</b> Apr. 2012</p>
<p><b>IPS-C-PI-290 (0)</b> May 1997      Withdrawn Amendment No. 1      Sep. 2002 <b>See: IPS-C-PI-290 (1)</b> Oct. 2009</p>	<p><b>IPS-E-PI-240 (0)</b> Dec. 1997      Withdrawn <b>IPS-E-PI-240 (1)</b> Jan. 2005      Withdrawn <b>See: IPS-E-PI-240 (2)</b> Sep. 2009</p>
<p><b>IPS-C-PI-350 (0)</b> Jan. 1996      Withdrawn <b>IPS-C-PI-350 (1)</b> June 2002      Withdrawn <b>See: IPS-C-PI-350 (2)</b> Jan. 2009</p>	<p><b>IPS-G-PI-230 (0)</b> July 1997      Withdrawn Amendment No. 1      July 2001 <b>See: IPS-G-PI-230 (1)</b> Jan. 2010</p>
<p><b>IPS-C-PI-370 (0)</b> Nov. 1993      Withdrawn <b>IPS-C-PI-370 (1)</b> Dec. 2002      Withdrawn <b>See: IPS-C-PI-370 (2)</b> Jan. 2010</p>	<p><b>IPS-G-PI-280 (0)</b> May 1997      Withdrawn <b>IPS-G-PI-280 (1)</b> Mar. 2005      Withdrawn <b>See: IPS-G-PI-280 (2)</b> Dec. 2009</p>



**Piping & pipelines**

<p><b>IPS-M-PI-110 (0)</b> Dec. 1997      Withdrawn  <b>See: IPS-M-PI-110 (1)</b> Mar. 2003</p>		
<p><b>IPS-M-PI-130 (0)</b> May 1993      Withdrawn  <b>See: IPS-M-PI-130 (1)</b> June. 2002</p>		
<p><b>IPS-M-PI-150 (0)</b> Dec. 1997      Withdrawn  <b>IPS-M-PI-150 (1)</b> Aug. 2006      Withdrawn  <b>See: IPS-M-PI-150 (2)</b> Jan. 2013</p>		
<p><b>IPS-M-PI-190 (0)</b> Dec. 1997      Withdrawn  <b>IPS-M-PI-190 (1)</b>                      Withdrawn  <b>See: IPS-M-PI-190 (2)</b> Apr. 2004</p>		

**Process Machineries**

<p><b>IPS-C-PM-215 (0)</b> May. 1997      Withdrawn</p> <p><b>IPS-C-PM-215 (1)</b> Mar. 2005      Withdrawn</p> <p><b>See: IPS-C-PM-216 (2)</b> July 2009</p>
<p><b>IPS-E-PM-100 (0)</b> July 1995      Withdrawn</p> <p><b>IPS-E-PM-100 (1)</b> July 2003      Withdrawn</p> <p><b>See: IPS-E-PM-100 (2)</b> Oct. 2009</p>
<p><b>IPS-E-PM-110 (0)</b> Dec. 1997      Withdrawn</p> <p><b>IPS-E-PM-110 (1)</b> Mar. 2005      Withdrawn</p> <p><b>See: IPS-E-PM-110 (2)</b> July 2009</p>
<p><b>IPS-E-PM-120 (0)</b> May 1997      Withdrawn</p> <p><b>See: IPS-G-PM-120 (1)</b> Oct. 2004</p>
<p><b>IPS-E-PM-385 (0)</b> July 1995      Withdrawn</p> <p><b>IPS-E-PM-385 (1)</b> July 2003      Withdrawn</p> <p><b>See: IPS-E-PM-385 (2)</b> Jan. 2010</p>
<p><b>IPS-E-PM-400 (0)</b> July 1995      Withdrawn</p> <p><b>IPS-E-PM-400 (1)</b> Aug. 2003      Withdrawn</p> <p><b>See: IPS-E-PM-400 (2)</b> Jan. 2010</p>

<p><b>IPS-I-PM-305 (0)</b> July 1997      Withdrawn</p> <p><b>See: IPS-I-PM-305 (1)</b> Feb. 2004</p>
<p><b>IPS-M-PM-105 (0)</b> Aug. 1993      Withdrawn</p> <p><b>IPS-M-PM-105 (1)</b> June 2002      Withdrawn</p> <p><b>See: IPS-G-PM-105 (2)</b> Dec. 2009</p>
<p><b>IPS-M-PM-115 (0)</b> Nov. 1993      Withdrawn</p> <p>Amendment No. 1      Oct. 1999</p> <p><b>See: IPS-M-PM-115 (1)</b> May 2006</p>
<p><b>IPS-M-PM-125 (0)</b> Dec. 1994      Withdrawn</p> <p>Amendment No. 1      May. 2000</p> <p>Amendment No. 1      Nov. 2006</p> <p><b>See: IPS-M-PM-125 (1)</b> Mar. 2009</p>
<p><b>IPS-M-PM-130 (0)</b> Aug. 1993      Withdrawn</p> <p><b>See: IPS-M-PM-130 (1)</b> June 2002</p>
<p><b>IPS-M-PM-140 (0)</b> Aug. 1993      Withdrawn</p> <p><b>IPS-M-PM-140 (1)</b> June 2002      Withdrawn</p> <p><b>See: IPS-M-PM-140 (2)</b> Dec. 2012</p>

**Process Machineries**

<p><b>IPS-M-PM-150 (0)</b> July 1994      Withdrawn  <b>See: IPS-M-PM-150 (1)</b> Nov. 2003</p>
<p><b>IPS-M-PM-170 (0)</b> May 1993      Withdrawn  <b>IPS-M-PM-170 (1)</b> June 2002      Withdrawn  <b>See: IPS-M-PM-170 (2)</b> June 2009</p>
<p><b>IPS-M-PM-180 (0)</b> Aug. 1993      Withdrawn  <b>See: IPS-M-PM-180 (1)</b> June 2002</p>
<p><b>IPS-M-PM-190 (0)</b> Nov. 1993      Withdrawn  <b>IPS-M-PM-190 (1)</b> June 2002      Withdrawn  <b>See: IPS-M-PM-170 (2)</b> June 2009</p>
<p><b>IPS-M-PM-200 (0)</b> Aug. 1993      Withdrawn  <b>IPS-M-PM-200 (1)</b> Dec. 2003      Withdrawn  <b>See: IPS-G-PM-200 (2)</b> Jan. 2010</p>
<p><b>IPS-M-PM-210 (0)</b> July 1994      Withdrawn  <b>See: IPS-M-PM-211 (1)</b> July 2006</p>

<p><b>IPS-M-PM-220 (0)</b> Nov. 1993      Withdrawn  <b>See: IPS-M-PM-220 (1)</b> June 2002</p>
<p><b>IPS-M-PM-240 (0)</b> Jan. 1999      Withdrawn  <b>IPS-M-PM-240 (1)</b> June 2002      Withdrawn  <b>See: IPS-M-PM-240 (2)</b> July 2012</p>
<p><b>IPS-M-PM-250 (0)</b> Aug. 1993      Withdrawn  <b>IPS-M-PM-250 (1)</b> June 2002      Withdrawn  <b>See: IPS-G-PM-250 (2)</b> Jan. 2010</p>
<p><b>IPS-M-PM-260 (0)</b> Dec. 1994      Withdrawn  <b>IPS-M-PM-260 (1)</b> Jan. 2003      Withdrawn  <b>See: IPS-G-PM-260 (2)</b> Nov. 2009</p>
<p><b>IPS-M-PM-270 (0)</b> July 1994      Withdrawn  <b>See: IPS-M-PM-170 (2)</b> June 2009</p>
<p><b>IPS-M-PM-290 (0)</b> Mar. 1996      Withdrawn  <b>See: IPS-M-PM-290 (1)</b> Mar. 2005</p>

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**Process Machineries**

**IPS-M-PM-300 (0)** Aug. 1993      Withdrawn

**See: IPS-M-PM-300 (1)** Dec. 2003

**IPS-M-PM-310 (0)** Aug. 1993      Withdrawn

**See:IPS-M-PM-310 (1)** Dec. 2003

**IPS-M-PM-320 (0)** Aug. 1993      Withdrawn

**See:IPS-M-PM-320 (1)** June 2002

**IPS-M-PM-330 (0)** July 1994      Withdrawn

**See: IPS-M-PM-330 (1)** Jan. 2003

**Process & Chemical**

<p><b>IPS-E-PR-190 (0)</b> Mar. 1996      Withdrawn</p> <p>Amendment No.1      June 2002</p> <p><b>See: IPS-E-PR-190 (1)</b> Mar. 2009</p>
<p><b>IPS-E-PR-230 (0)</b> Oct. 1996      Withdrawn</p> <p>Amendment No. 1      Oct. 2002</p> <p><b>See: IPS-E-PR-230 (1)</b> July 2009</p>
<p><b>IPS-E-PR-260 (0)</b> Dec. 1997      Withdrawn</p> <p><b>See: IPS-E-PR-260 (1)</b> Nov. 2006</p>
<p><b>IPS-E-PR-360 (0)</b> Dec. 1997      Withdrawn</p> <p><b>See: IPS-E-PR-360 (1)</b> Mar. 2009</p>
<p><b>IPS-E-PR-370 (0)</b> Dec. 1997      Withdrawn</p> <p>Amendment No. 1      July 2004</p> <p><b>See: IPS-E-PR-370 (1)</b> Nov. 2009</p>
<p><b>IPS-E-PR-450 (0)</b> Dec. 1997      Withdrawn</p> <p><b>See: IPS-E-PR-450 (1)</b> Aug. 2009</p>

<p><b>IPS-E-PR-460 (0)</b> July 1994      Withdrawn</p> <p>Amendment No. 1      June 1999</p> <p><b>See: IPS-E-PR-460 (1)</b> Dec. 2009</p>
<p><b>IPS-E-PR-470 (0)</b> Mar. 1996      Withdrawn</p> <p>Amendment No.1      June 2002</p> <p><b>See: IPS-E-PR-460 (1)</b> Dec. 2009</p>
<p><b>IPS-E-PR-491 (0)</b> Dec. 1997      Withdrawn</p> <p><b>See: IPS-E-PR-491 (1)</b> Oct. 2006 <b>IPS-E-PR-492 (1)</b> Aug. 2006</p>
<p><b>IPS-E-PR-725 (0)</b> Mar. 1996      Withdrawn</p> <p>Amendment No. 1      Aug. 2002</p> <p><b>See: IPS-E-PR-725 (1)</b> Feb. 2010</p>
<p><b>IPS-E-PR-730 (0)</b> Dec. 1997      Withdrawn</p> <p><b>See: IPS-E-PR-730 (1)</b> Feb. 2010</p>
<p><b>IPS-E-PR-735 (0)</b> Dec. 1997      Withdrawn</p> <p>Amendment No. 1      Aug. 2005</p> <p><b>See: IPS-E-PR-735 (1)</b> Feb. 2010</p>

## Process &amp; Chemical

**IPS-E-PR-750 (0)** May 1997      Withdrawn

Amendment No. 1      Feb. 2005

**See: IPS-E-PR-750 (1)** Feb. 2010

**IPS-E-PR-771 (0)** July 1997      Withdrawn

Amendment No. 1      Dec. 2003

**See: IPS-E-PR-771 (1)** Oct. 2009

**IPS-E-PR-850 (0)** Dec. 1997      Withdrawn

Amendment No. 1      Dec. 2005

**See: IPS-E-PR-850 (1)** Dec. 2009

**IPS-E-PR-880 (0)** May 1997      Withdrawn

Amendment No. 1      Jan. 2006

**See: IPS-E-PR-880 (1)** Jan. 2010

Safety, Fire Fighting & Environmental Pollution Control

<p><b>IPS-C-SF-242 (0)</b> Dec. 1997      Withdrawn</p> <p>Amendment No. 1      May 2004</p> <p><b>See: IPS-C-SF-242 (1) Mar. 2009</b></p>
<p><b>IPS-E-SF-860 (0)</b> July 1994      Withdrawn</p> <p>Amendment No. 1      July 2000</p> <p><b>See: IPS-E-SF-860(1) Oct. 2007</b></p>
<p><b>IPS-E-SF-880 (0)</b> May 1997      Withdrawn</p> <p><b>See: IPS-E-SF-880(1) Nov. 2005</b></p>
<p><b>IPS-G-SF-100 (0)</b> July 1994      Withdrawn</p> <p>Amendment No. 1      Sep. 2000</p> <p><b>See: IPS-G-SF-100 (1) Oct. 2009</b></p>
<p><b>IPS-G-SF-126 (0)</b> Oct. 1996      Withdrawn</p> <p>Amendment No.1      Feb. 2001</p> <p><b>See: IPS-G-SF-126 (1) June 2009</b></p>
<p><b>IPS-G-SF-240 (0)</b> Oct. 1996      Withdrawn</p> <p>Amendment No. 1      Dec. 2000</p> <p><b>See: IPS-G-SF-240 (1) July 2009</b></p>

<p><b>IPS-G-SF-340 (0)</b> May 1997      Withdrawn</p> <p>Amendment No. 1      Dec. 2002</p> <p><b>See: IPS-G-SF-340 (1) July 2009</b></p>
<p><b>IPS-G-SF-355 (0)</b> Oct. 1996      Withdrawn</p> <p>Amendment No. 1      Aug. 2002</p> <p><b>See: IPS-G-SF-355 (1) Nov. 2009</b></p>
<p><b>IPS-G-SF-460 (0)</b> Dec. 1997      Withdrawn</p> <p>Amendment No. 1      Nov. 2004</p> <p><b>See: IPS-G-SF-460 (1) Dec. 2009</b></p>
<p><b>IPS-G-SF-503 (0)</b> Oct. 1996      Withdrawn</p> <p>Amendment No. 1      June. 2001</p> <p><b>See: IPS-G-SF-503 (1) Aug. 2009</b></p>
<p><b>IPS-M-SF-105 (0)</b> Mar 1996      Withdrawn</p> <p>Amendment No. 1      Jan. 2001</p> <p><b>See: IPS-M-SF-105 (1) May 2009</b></p>
<p><b>IPS-M-SF-142 (0)</b> Mar. 1996      Withdrawn</p> <p>Amendment No. 1      Feb. 2001</p> <p><b>See: IPS-M-SF-142 (1) Nov. 2008</b></p>

**Safety, Fire Fighting & Environmental Pollution Control**

<p><b>IPS-M-SF-325 (0)</b> July 1997      <b>Withdrawn</b></p> <p>Amendment No. 1      Feb. 2006</p> <p><b>See: IPS-M-SF-325 (1)</b> May 2009</p>




Technical Protection

<p><b>IPS-C-TP-101 (0)</b> Jan. 1996      Withdrawn</p> <p>Amendment No. 1      Nov. 2000</p> <p><b>See: IPS-C-TP-101 (1) May 2010</b></p>
<p><b>IPS-C-TP-102 (0)</b> Jan. 1996      Withdrawn</p> <p>Amendment No. 1      June 2003</p> <p><b>See: IPS-C-TP-102 (1) Mar. 2010</b></p>
<p><b>IPS-C-TP-274 (0)</b> Dec. 1997      Withdrawn</p> <p>Amendment No. 1      Aug. 2004</p> <p><b>See: IPS-C-TP-274 (1) Dec. 2009</b></p>
<p><b>IPS-C-TP-352 (0)</b> Dec. 1997      Withdrawn</p> <p>Amendment No. 1      Nov. 2004</p> <p><b>See: IPS-C-TP-352 (1) May 2010</b></p>
<p><b>IPS-C-TP-701 (0)</b> Dec. 1997      Withdrawn</p> <p>Amendment No. 1      Feb. 2003</p> <p><b>See: IPS-C-TP-701 (1) Apr. 2010</b></p>
<p><b>IPS-C-TP-742 (0)</b> Dec. 1997      Withdrawn</p> <p><b>See: IPS-C-TP-742 (1) May 2010</b></p>

<p><b>IPS-E-TP-100 (0)</b> July 1994      Withdrawn</p> <p>Amendment No. 1      Sep. 2000</p> <p>Amendment No. 1      Feb. 2004</p> <p><b>See: IPS-E-TP-100 (1) May 2009</b></p>
<p><b>IPS-E-TP-270 (0)</b> Dec. 1997      Withdrawn</p> <p>Amendment No. 1      May. 2003</p> <p><b>See: IPS-E-TP-270 (1) Mar. 2009</b></p>
<p><b>IPS-E-TP-350 (0)</b> Dec. 1997      Withdrawn</p> <p>Amendment No. 1      Aug. 2004</p> <p><b>See: IPS-E-TP-350 (1) Jan. 2010</b></p>
<p><b>IPS-E-TP-700 (0)</b> Jan. 1996      Withdrawn</p> <p>Amendment No. 1      Nov. 2002</p> <p><b>See: IPS-E-TP-700 (1) Nov. 2009</b></p>
<p><b>IPS-E-TP-740 (0)</b> Dec. 1997      Withdrawn</p> <p>Amendment No. 1      Nov. 2006</p> <p><b>See: IPS-E-TP-740 (1) Mar. 2010</b></p>
<p><b>IPS-E-TP-780 (0)</b> Dec. 1997      Withdrawn</p> <p><b>See: IPS-E-TP-780 (1) Apr. 2010</b></p>

Technical Protection

<p><b>IPS-E-TP-820 (0)</b> Dec. 1997      Withdrawn Amendment No. 1      Jan. 2005 <b>See: IPS-E-TP-820 (1)</b> May 2010</p>
<p><b>IPS-M-TP-168 (0)</b> Jan. 1996      Withdrawn <b>See: IPS-M-TP-168 (1)</b> Feb. 2001</p>
