

**APPLICATION OF CODES AND
STANDARDS****JGS 210-120-1-05E**

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CONTENTS

	<u>PAGE</u>
1. SCOPE.....	2
2. PUBLIC CODES AND STANDARDS.....	2
3. COMPANIES' STANDARDS	2

1. SCOPE

This practice covers significant codes and standards applicable to plant design , construction and operation.

2. PUBLIC CODES AND STANDARDS

- (1) Related laws and codes shall be followed in all cases. On the other hand , the application of the public standards (including national and international standards) shall depend on the contractual requirements.
- (2) Generally , in the case where the plant is constructed in Japan , Japanese codes and standards shall be applied. However, if the project is carried out by the licensee or the client under foreign capitals , foreign standards such as API or ASTM may be used.
- (3) Tables 1 and 2 listed herein show major public codes and standards. The documents marked * in tables are filed in Standardization department.

3. COMPANIES' STANDARDS

- (1) The companies' standards are divided into the following four groups.

- JGS (JGC Standard) .
- Clients' Standards
- Licensors' Standards
- Vendors' Standards

JGS shall be applied to the plant design engineering , unless clients' or licensor s' standards take precedence over JGS according to the contract.

The typical engineering standards are shown in Table 3 attached. The documents marked * in tables are filed in Standardization department.

- (2) Clients' or licensors' standards are updated by absorbing various operational data and information collected from their related plants. However, as some parts of these standards will require rather high-grade design engineering , the written approval of clients or licensors for deviations from such parts shall be obtained at the earliest stage of engineering work.

Table 1 Codes and Standards in Japan

Standard Abbreviation	Description
AIJ	Standards of Architectural Institute of Japan
AIS	Association Industrial Standard
ARS	Aluminum Research Standard
AS	Association Standard
BAS	Japan Bearing Industrial Association Standard
BTS	Broadcasting Technical Standard
CAJS	The Cement Association of Japan Standard
CESM	Communication Engineering Standard Material
CIS	Cemented Carbide Tool Industrial Standard
DCS	Die Casting Standards
DSP	Defense Specification
EIAJ	Standards of Electronic Industries Association of Japan
EIMS	Electrical Insulating Materials Standards
EMAS	Electronic Materials Manufacturers' Association of Japan Standard
FIJ	Standards of Fasteners Institute of Japan
FRS	Fastener Research Standard
GIA	Standards of Japan Rubber and Vinyl Gloves Industrial Association
GIS	Japan Grinding Wheel Association Industrial Standard
HASS	Heating, Air-Conditioning and Sanitary Standard
HPIS	* High Pressure Institute Standard
JABIA	Standard of Japan Auto - body Industries Association
JACA	Japan Air Cleaning Association Standard
JACC	Standards of Japan Association of Corrosion Control
JACS	Japan Automatic Controls Industrial Association Standard
JACT	The Japanese Association of Casting Technology Standard
JAIS	Japan Aromatic Industry's of Standards
JAIS	Japan Automobile Accessory Industrial Standards
JARP	JAAMA Recommended Practice
JARS	Japanese Association of Refrigeration Standard
JAS	Japanese Agricultural Standard
- (Cont'd) -	

Table 1 (Cont'd)

Standard Abbreviation	Description
JASO	Standards of Japanese Automobile Standards Organization
JASS *	Standards of Japanese Architectural Standard Specification
JATMA	Standards of The Japan Automobile Tire Manufacturers' Association, Inc.
JBA	Standards of Japan Bentonite Association
JBMS	Japan Business Machine's Standard
JBS	The Japan Bench Machine Tool Builders Association Standard
JCAS	Japan Carbon Association Standard
JCIS	Japan Camera Industrial Standard
JCMAS	Japan Construction Mechanization Association Standard
JCS	Japanese Cable Maker's Association Standard
JCVA	Standards of Japan Cylinder Valve Association
JEAC *	Japan Electric Association Code
JEAG *	Japan Electric Association Guide
JEC	Standards of Japanese Electrotechnical Committee
JEIDA	Standards of Japan Electronic Industry Development Association
JEL	Japan Electric Lamp Manufacturers' Association Standard
JEM *	Standards of the Japan Electrical Manufacturers' Association
JEMIS *	Japan Electric Measuring Instruments Manufacturer's Association Standard
JESRA	Standards of Japan Engineering Standards of Radiation Apparatus
JFSS *	Japan Forged Steel Standards
JGBAGPS	Japan Gypsum Association Gypsum Products Standard
JGLS	Japan Glass - Lining Standard
JGMA	Standards of Japan Gear Manufacturers' Association
JHS	Japan Heat Treatment Standard
JHSMMA	Standards of Japan Household Sewing Machine Manufacturers' Association
JHTS	Japanese Hand Tool Standard
JIFMAS	Japan Industrial Furnace Manufacturers' Association Standard
JIIA	Standards of Interphone Industry Association of Japan
JIL	Standards of Recommendation of Japan Luminaires Association
- (Cont'd) -	

Table 1 (Cont'd)

Standard Abbreviation	Description
JIMS *	The Japan Society of Industrial Machinery Manufacturer's Standards
JIS *	Japanese Industrial Standards
JISMAS	Japan Industrial Sewing Machine Manufacturers' Association Standard
JIVAS	Japan Industrial Vehicles Association Standard
JIWA	Standards of Japan Industrial Work Water Association
JLPGA	Standards of Japan Liquefied Petroleum Gas Association
JMA	Standards of Japan Microphotograph Association
JMAS	Japan Precision Measuring Instrument Association Standard
JMS	Japan Marine Standards
JMS	Japan Motion Picture Equipment Industrial Association Standard
JOGIS	Japanese Optical Glass Industrial Standards
JOHS	The Japan Oil Hydraulic Standards
JPAS	The Japan Pneumatics Association Standard
JPF	Japan Pipe Fittings Association Standard
JPI *	The Japan Petroleum Institute Standard
JPHA	Standards of the Japan Port and Harbar Association
JPMA	Standards of Japan Powder Metallurgy Association
JRA	Japan Road Association
JRS	Japanese National Railways Standard
JRS	Japanese Refractory Standard
JSAS	Japan Safety Appliance Association Standard
JSCE	Japan Society of Civil Engineers
JSDS	Japanese Ship Design Standard
JSK	Standards of Japan Industrial Saw and Knife Association
JSMA	Standards of Japan Spring Manufacturers' Association
JSSA	Standards of Japan Stainless Steel Association
JSSC *	Standards of Society of Steel Construction of Japan
JSSMFE	Standards of The Japanese Society of Soil Mechanics and Foundation Engineering
JSWAS *	Japan Sewage Works Association Standard
JTCAS	Japan Tire Chain Association Standards
- (Cont'd) -	

Table 1 (Cont'd)

Standard Abbreviation	Description
JV *	Japan Valve Manufacturers' Association Standard
JWDS	Japan Wiring Devices Association Standard
JWIF	Standards of Japan Wool Products Inspection Institute Foundation
JWMA	Standards of The Japan Woodworking Machinery Association
JWWA *	Japan Water Works Association Standard
KHKS	Koatsugasu Hoan Kyokai Standard
LES	Land Engine Standard
LIS *	Light Metal Industrial Standard
MAS	Standards of Japan Machine Tool Builders' Association
MESJ	Standards of The Marine Engineering Society in Japan
MTS	Magnetic Tape Standard
NDIS	Non - Destructive Inspection Standard
NDS	National Defense Standard
NECA	Standards of The Japan Electric Control Equipment Industry Association
NK	Standards of Nippon Kaiji Kyokai
PMS	Permanent Magnet Standard
RIS	Record Industrial Standard
RIS	Rolling Stock Industrial Standards
SBA	Standards of Japan Storage Battery Association
SDA	Standards of Steel Drums Association
SMA	Standards of The Standards of the Ship Machinery Manufacturers' Association of Japan
SRIS	The Society of Rubber Industry, Japan Standard
TAS	The Japan Small Tool Makers Association Standard
TES	Tooling and Equipment Standard
TIS	Titanium Society Industrial Standard
TMS	Standards of Japanese Tungsten Molybdenum Standards Organization
VIA	Standards of Vehicle Inspection Association
WES *	Welding Engineering Standard

Note : The documents marked * in tables are filed in Standardization department.