

# Energy - Downstream, Power and Manufacturing Design Appraisal Document

Lloyd's Register Industrial Tech. Sevices (Shanghai) Co. Ltd.

**Shanghai Design Appraisal Centre** 

20th Floor, Ocean Towers, 550 Yan An Dong Road, Shanghai 200001, PR China

el: +86 (21) 5158 5700 Fax: +86 (21) 6390 6866

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Ouote this reference on all future communications

SDA1290158/MRD/O-66183

Manufacturer

JIANGYIN YANGZI PIPE FITTING CO., LTD.

Subject

PIPING COMPONENT (45 DEG and 90 DEG. ELBOW)

Design Code

ASME B31.3: 2008

Design Pressure

Nominal Size

Range: 11.5 bar (g) to 436.1 bar (g) (for various DN and SCH. Combination)

DN 32, DN 40, DN 50, DN 65, DN 80, DN 90, DN 100, DN 125, DN 150,

DN 200, DN 250, DN 300, DN 350, DN 400

Category

1/11/11

PED module

B1

The documents listed below have been examined to the requirements of the above Code, and the Essential Safety Requirements of the Pressure Equipment Directive (97/23/EC) supported by the above Code, including the global conformity assessment procedure of the Directive for the envisaged design conditions specified in the plans listed in the Appendix and are found in order. The proposed arrangement is considered to comply with the requirements of the Directive subject to the following:-

- (A) Construction and testing should be carried out to the requirements of the Code and to the satisfaction of the Surveyors.
- (B) The drawing showing "Document Status" as "BQ" should be revised or the comments contained in the paragraphs to follow should otherwise be resolved.
- (C) The drawings marked # have been received with the present submission.
- (D) Reference Documents:
  - · Hazard Analysis.
  - Installation, Operation and Maintenance Manual.
  - Manufacturer's calculation (Doc. No. P12-A-30120~30124, Rev.0).
  - ESR assessment (YZ-ESR, Rev.0).

# **COMMENTS:**

The appraisal has been carried out considering these to be piping components.

BOS

BOP

The drawing submitted shows only SA-234WP material. Firm is requested to include all 2 the materials being used for fittings on drawing and submit the PMA for all the materials

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number 0

The following are outside the scope of this appraisal but should be complied with:-

- I Checking suitability from process considerations.
- Il Checking to other than the design code and the Directive mentioned above.

Bry.

Makarand R Deshpande Senior Surveyor

Shanghai Design Appraisal Centre

Lloyd's Register Industrial Tech. Sevices (Shanghai) Co. Ltd.

Direct Phone: +86 21 5158 5787 Email: maakrand.deshpande@lr.orq

www.lr.org

# Appendix to

# Energy - Downstream, Power and Manufacturing Design Appraisal Document

1. The documents listed below have been examined

# **List of Drawings:**

	Drawing No.	Revision	Status	Date
#	YZPF-EL-01	0	BM	27/08/2012

# 2. Particular Material Appraisal

# List of Materials:

	Material specification	PMA Revision No	Temp. °C	Note
#	SA-234 WPB	0	-29 TO 300	

Under the provisions of the directive particular material appraisals have been carried out for the above materials and are considered acceptable (except as commented below in the notes)

### Appraisal Status Key

В	Examined
BM	Examined and amended in red
BQ	Examined subject to matters identified within the Design Appraisal Document which require resolution
BQP	Details to be submitted by the client to Shanghai Design Appraisal Office.
BQS	Details to be submitted by the client to the local surveyor's office responsible for the building and the arrangements verified in accordance with the Code requirements by the attending surveyor
RI	Used for information only

### Distribution:

LR Shanghai	+ 1 Set of Drawings
Shanghai Design Appraisal Centre	+ 1 Set of Drawings