

CERTIFICATE OF EXAMINATION OF STEAM BOILER

Steam Boilers Regulation Act, 1907

THIS IS TO CERTIFY that at the request of **SKELDON ENERGY INC**, a STEAM BOILER, Boiler No. 1, located at the Wartsila Power Station, Skeldon Estate Compound, Skeldon, East Berbice was examined.


The details of the Steam Boiler are set out hereunder.

Type:	Horizontal Fire Tube Wet Back Boiler
Model No:	WNS2-1.0-YC
Boiler No:	WN040060
Maker:	Jiangsu Shuangliang Boiler Company Ltd. People's Republic of China
Year of Construction:	2006
Fittings:	1 Safety Valve 1 Steam Pressure Gauge 2 Water Level Gauges 2 Blow Down Valves

The Steam Boiler which is used for supplying auxiliary steam to an Electricity Generating Plant situated at the Skeldon Estate Compound, East Berbice, was examined Cold and under Normal Steam Pressure on the 09th day of October 2023.

I declare that to the best of my knowledge the Steam Boiler is in safe condition and capable with due regard to safety of being worked for **twelve (12) months** from date of examination, at a maximum steam pressure under ordinary working conditions of **Zero Point Eight Five Mega Pascals (0.85 MPa)** above the pressure of the atmosphere, provided that during the said **twelve (12) months** no material alteration is made thereto and the Steam Boiler is at all times kept in the same condition as when examined.

By issuing this certificate the undersigned does not make any warranty, expressed or implied, concerning the above-described Steam Boiler. Furthermore, the undersigned shall not be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this Steam Boiler.

Signature: 
M. A. Yhanna

Qualification: BSc, PgDip, MASME, MIEEE
Registered Boiler Examiner

Address: 9 Courida Park
East Coast Demerara
Guyana

Date: 12 October 2023

REPORT OF EXAMINATION OF STEAM BOILER UNDER NORMAL STEAM PRESSURE

Name of Occupier:

SKELDON ENERGY INC

Address of:

Wartsila Power Station, Skeldon Estate Compound, East Berbice

- (a) Factory.
- (b) Head Office of Occupier.

Note:- Address (b) is required only in the case of a boiler used in a temporary location.

Description and distinctive number of boiler and type.

JIANGSU SHUANGLIANG BOILER COMPANY; Horizontal Fire Tube Type; Model WNS2-1.0-YC; **Boiler No. WN040060**

1. Condition (External):

Satisfactory

2. Boiler and attachments:

- (a) (i) Is the safety valve so adjusted as to prevent the boiler being worked at a pressure greater than the maximum permissible working pressure specified in the last report on the examination when cold?
- (ii) If level safety valve, is the weight secured on the lever in the correct position?
- (b) Is the pressure gauge working correctly?
- (c) Are the water gauges in proper working order?
- (d) Is the low water alarm/lock out operating correctly?
- (e) Is the high-pressure cut out in proper working order?

Yes
Safety Valve Blow Off Pressures: - 0.85 MPa

Not Applicable


Yes
Local Water Gauges OK,
Yes
Yes. Automatic High Pressure Cut Out – 0.80 MPa

3. Repairs (if any) required and period within which they should be executed and any other conditions which the person making the examination thinks it necessary to specify for securing safe working.

4. Other observations:

New Display for the Boiler Controller Installed

I certify that on 09 October 2023 the abovementioned Boiler was examined under Normal Steam Pressure and that the above is a true report of the result.

Signature: 
M. A. Yham

Qualification: BSc, PgDip, MASME, MIEEE
Registered Boiler Examiner

Address: 9 Courida Park
East Coast Demerara
Guyana

Date: 12 October 2023

REPORT OF EXAMINATION OF STEAM BOILER WHEN COLD

Name of Occupier:

SKELDON ENERGY INC.

Address of:

Wartsila Power Station, Skeldon Estate Compound, East Berbice

(a) Factory.

(b) Head Office of Occupier.

Note:- Address (b) is required only in the case of a boiler used in a temporary location.

Description and distinctive number of Boiler and type.

JIANGSU SHUANGLIANG BOILER COMPANY; Horizontal Fire Tube Type; Model WNS2-1.0-YC; Boiler No. WN040060

Date of construction:

2006

The history should be briefly given and the examiner should state whether he has seen the last previous report.

Last Report Not Seen

Date of last hydraulic test (if any) and pressure applied:

16/03/22 @ 0.89 MPa

Quality and source of water:

Return Condensate & Treated Make-Up

Is the boiler in the open or otherwise exposed to the weather or to damp?

No

1. Boiler.

(a) What parts of seams, drums or headers are covered by brickwork?

Completely Lagged

(b) Date of last exposure of such parts for the purpose of examination.

(c) What parts (if any) other than parts covered by brickwork and mentioned above were inaccessible?

None

(d) What examination and tests were made? (If there was any removal of brickwork, particulars should be given)

Visual inspection

(e) Condition of boiler: -

External (State any defects materially affecting the)

Satisfactory

Internal (maximum permissible working pressure.)

Poor to Satisfactory. See Section 5 Below

2. Fittings and attachments.

(a) Are there proper fittings and attachments?

Yes

(b) Are all fittings and attachments in satisfactory condition (so far as ascertainable when not under pressure)?

Yes

3. Repairs (if any) required and period within which they should be executed, and any other conditions which the person making the examination thinks it necessary to specify for securing safe working.

4. Maximum permissible working pressure calculated from dimensions and from the thickness and other data ascertained by the present examination; due allowance being made for conditions of working if unusual or exceptionally severe.

0.85 MPa

Where repairs affecting the working pressure are required state the maximum permissible working pressure;

(a) Before the expiration of the period specified in (3).

(a)

(b) After the expiration of such period if the required repairs have not been completed.

(b)

(c) After the completion of the required repairs.

(c)

5. Other observations:

Boiler Front Tube Sheet Bulging Outwards. Furnace Tube Bulging on Upper Middle Section. Front Tube Sheet in the Turn Around Section has Slight Bulging. Several Tubes Plugged.

I certify that on 09 October 2023 the Boiler above described was sufficiently scaled, prepared and (so far as its construction permits) made accessible for thorough examination and for such tests as were necessary for thorough examination and that on the said date this Boiler was thoroughly examined, including its fittings and attachments, and that the above is a true report of the result.

Signature:

M. A. Yhann

Qualification: BSc, PgDip, MASME, MIEEE
Registered Boiler Examiner

Address: 9 Courida Park
East Coast Demerara
Guyana

Date: 12 October 2023