

Appendix to Certificate
WF 0210113 HH dated 2002-07-16

Messrs. **Jobson Italia Srl**
Via Stagnoni 60
La Spezia
Italy

has been approved for the procedures as specified in the supplements for the following range of application:

- I. Welding of Steam Boilers
- II. Welding of Pressure Vessels

Range of Production/ Components: **To II. Heat Exchangers**
(Entry only in case of special approval)

Regulations also considered: ---

Supervisor: **Mr. Anselmo Paolucci**
Certificate No.: **EWI / 12, 92936** issued: **1999-06-26**
issued by: **Istituto Italiano della Saldatura, Italy**
Deputy Supervisor: ---
Certificate No.: --- issued: ---
issued by: ---

Part of the approval is our letter of approval ref. no. 073789-02/DLis of 2002-07-16.

Hamburg, 2002-07-16 Approval is valid until: 2005-07-15

Germanischer Lloyd

Covering the period of validity in the certificate of approval and the date in which it is to be renewed, if the provisions change under which approval was granted, the responsible person in the Rules for Welding are to be notified. Additional requirements, if any, in the covering letter are to be observed. The basic edition of the Rules for Welding is applicable to the Rules for Welding in the Rules for Classification and Construction II, Material and Welding Technology, Part 3 - Welding. Part 4 - Construction and Services. Germanischer Lloyd Hamburg-Brickell, Registered Office Hamburg, 2009 02 01

U Pohle Penno

Suppl.-No.: 02
to Certificate WF 0210113 HH

WPS-No.: JB 0402 of 2002-03-08

Messrs. **Jobson Italia Srl**

has been approved on the basis of the welding procedure test supervised by Germanischer Lloyd and specified in a welding procedure specification (see WPS-No.), in accordance with the "Rules for Classification and Construction II, Material and Welding Technology, Part 3 - Welding" for the following welding procedure:

Manual metal-arc welding with covered electrodes of non-alloy steel plates to high-temperature pipes

Welding Details
Process: 111 - Manual arc welding with covered electrodes
Type of joint: Fillet joints (single-pass and multi-pass)
Welding equipment: Substituted, in accordance with the instructions of the welding supervisor
Welding date: As for the welding procedure tests, see pertinent welding procedure specification
Welding consumables: Covered electrodes tested and approved by Germanischer Lloyd with the relevant grade according to the base materials to be welded

Edge preparation: According to the relevant welding procedure specification. Weld area free of Shop primer.
Weld build-up: As for the welding procedure tests, see pertinent welding procedure specification.
Welding heat treatment: Without preheat. However remove moisture before welding.

Welders: Mr. Franco Ragusi as well as other welders instructed accordingly and recognized by Germanischer Lloyd with valid welder's certificates in the respective group.
Others: The validity of the welding procedure qualification for pressure vessels and steam boilers is one year. It can be prolonged with the help of positive test results of production test pieces and/or results of non-destructive tests.

Range of application
Base materials: St 35.8 acc. DIN 17175 to P260GH acc. EN 10028-2 and other comparable pipes / plates with a minimum specified yield strength up to 265 N/mm² and consent of Germanischer Lloyd.
Wall thickness(es) [mm]: Plate: 15 - 50
Pipe: 3.2 - 12.8; Throat thickness: "a" = 3 - 6
Pipe diameter [mm]: 32 - 127
Position: PE
Heat treatment condition: As welded
Design temperature: As for base and filler material.
Particularities, remarks: ---

Parts of this approval are the a. m. certificate, the above mentioned WPS, if any, and our letter of approval with ref. no. 073789-02/DLis of 2002-07-16.

Hamburg, 2002-07-16

Germanischer Lloyd

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Penno

Suppl.-No.: 01
to Certificate WF 0210113 HH

WPS-No.: JB 01/02, 02/02 and 03/02 of 2002-03-08

Messrs. **Jobson Italia Srl**

has been approved on the basis of the welding procedure test supervised by Germanischer Lloyd and specified in a welding procedure specification (see WPS-No.), in accordance with the "Rules for Classification and Construction II, Material and Welding Technology, Part 3 - Welding" for the following welding procedure:

Tungsten inert gas arc welding combined with manual metal-arc welding with covered electrodes of normal and higher-strength structural steels

Welding Details
Process: 141/111 - Tungsten inert gas arc welding (root) / Manual arc welding with rod electrodes (rest)
Type of joint: Butt joints, welded from both sides in multi-run technique, Full penetration T-joint
Welding equipment: Substituted, in accordance with the instructions of the welding supervisor
Welding date: As for the welding procedure tests, see pertinent welding procedure specification
Welding consumables: Wire-gas combinations and covered electrodes tested and approved by Germanischer Lloyd with the relevant grade according to the base materials to be welded

Edge preparation: Butt joints: Double-V and double HV (T joint); included angle and gap as for the welding procedure tests, see relevant WPS.
Weld build-up: As for the welding procedure tests, see pertinent welding procedure specification.
Welding heat treatment: Without preheat. However remove moisture before welding.

Welders: Mr. Drazen Gajic (141) and Mr. Franco Ragusi (111) as well as other welders instructed accordingly and recognized by Germanischer Lloyd with valid welder's certificates in the respective group.
Others: The validity of the welding procedure qualification for pressure vessels and steam boilers is one year. It can be prolonged with the help of positive test results of production test pieces and/or results of non-destructive tests.

Range of application
Base materials: P260GH acc. EN10028-2 and Fe510 acc. EN 10025 (anneal C) and other comparable normal and higher strength structural steels with a minimum specified yield strength up to 355 N/mm² and consent of Germanischer Lloyd.
Wall thickness(es) [mm]: Butt joints: 9.5 - 60

Pipe diameter [mm]: ---
Position: Butt joints: PA, PB, PE
Heat treatment condition: As welded

Design temperature: As for base and filler material.
Particularities, remarks: The need and the temperature of preheating for welding of higher strength structural steel shall be determined in relation to the plate thickness, the chemical composition of the base metal, the hydrogen content of the weld metal, the heat input during welding and the temperature of the workpiece. Tungsten inert gas welding with protection against wind and weather.

Parts of this approval are the a. m. certificate, the above mentioned WPS, if any, and our letter of approval with ref. no. 073789-02/DLis of 2002-07-16.

Hamburg, 2002-07-16

Germanischer Lloyd

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Penno

Certificate No. WF 0210113 HH

This is to certify that Messrs.

Jobson Italia Srl

Via Stagnoni 60

La Spezia
Italy

has been granted on the basis of the verification of the workshop's preconditions and of the proofs of qualification presented the

Approval for Welding

in accordance with the **Germanischer Lloyd Rules for Welding (Rules for Classification and Construction, II - Material and Welding Technology, Part 3 - Welding)**

The range of application, if applicable other regulations also considered, the responsible supervisor(s) as well as the period of validity are mentioned in the appendix to this certificate. Approved procedures are confirmed within the assigned supplements to the appendix.

Hamburg, 2002-07-16

Germanischer Lloyd

U Pohle Penno

Covering the period of validity in the certificate of approval and the date in which it is to be renewed, if the provisions change under which approval was granted, the responsible person in the Rules for Welding are to be notified. Additional requirements, if any, in the covering letter are to be observed. The basic edition of the Rules for Welding is applicable to the Rules for Welding in the Rules for Classification and Construction II, Material and Welding Technology, Part 3 - Welding. Part 4 - Construction and Services. Germanischer Lloyd Hamburg-Brickell, Registered Office Hamburg, 2009 02 01