

DERKSEN MECHANICAL SERVICES INC.
Winnipeg, Manitoba, R3B 0B6

Quality Control Manual

FOR

**Installation/Repairs/Alterations/Testing of Pressure Vessels
Fabrication/Installation/Repairs/Alterations/Testing of Pressure Piping
in Shop and Field**

**In Accordance With
CSA B51, B52 & NBIC
ASME Sections I, II, IV, V, VIII Div 1, IX
ASME B31.1, B31.3, B31.5, B31.9**

**and
Manitoba Steam & Pressure Plant Act and Regulations
As Detailed Herein**

**Controlled Manual No. 1
*This Manual May Not Be Reproduced For Distribution***

Original issue date February 2001	Revision No. 2	Latest revision date April 2009
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DERKSEN MECHANICAL SERVICES INC.
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Uncontrolled Manual No. 1

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Approved By

QCM Date

Accepted By

AI Date

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TABLE OF CONTENTS

ITEM	Revision #
I) REFERENCE CODES	2
II) LIST OF MANUAL HOLDERS	2
III) REVISION LIST	2
IV) COMPANY PROFILE	2
1) GLOSSARY	2
2) MANUAL CONTROL	2
3) POLICY	2
4) STATEMENT OF AUTHORITY	2
5) RESPONSIBILITIES	2
6) ORGANIZATION CHART	2
7) DRAWINGS, CALCULATIONS AND SPECIFICATIONS	2
8) MATERIAL CONTROL	2
9) WELDING AND BRAZING CONTROL	2
10) HEAT TREATMENT	2
11) CALIBRATION	2
12) EXAMINATION AND INSPECTION	2
13) CONTROL OF NON-CONFORMITIES	2
14) NON-DESTRUCTIVE EXAMINATION	2
15) RECORDS RETENTION	2
16) AUTHORIZED INSPECTOR	2
17) REPAIRS AND ALTERATIONS	2
18) PRE JOB REVIEW	0
19) SAMPLE FORMS	2

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REFERENCE CODES

ANSI/ASME PIPING

- B3 1.1 Power Piping
- B31.3 Process Piping
- B3 1.5 Refrigeration Piping
- B3 1.9 Building Services Piping

ASME BOILER & PRESSURE VESSEL CODE

SECTION I POWER BOILERS

II MATERIALS

IV HEATING BOILERS NON-

V DESTRUCTIVE EXAMINATION DIV.

VIII 1 PRESSURE VESSELS WELDING &

IX BRAZING

CSA B51 BOILER, PRESSURE VESSEL AND PRESSURE PIPING CODE

CSA B52 MECHANICAL REFRIGERATION CODE

MANITOBA STEAM & PRESSURE PLANT ACT AND REGULATIONS

NATIONAL BOARD INSPECTION CODE

SCOPE

Derksen Mechanical Services Inc., hereinafter called the company, intends to perform all Code related work in conformance to the applicable above noted Codes.

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LIST OF MANUAL HOLDERS

1. This list of controlled manual holders is subject to revision. The Quality Control Manager, herein referred to as QCM, uses Copy No. 1 of this list to make any revisions and to add or delete names of holders.
2. The QCM prepares revisions to the manual as deemed necessary from time to time due to Code or Company changes. These revisions are submitted to the Authorized Inspector, herein referred to as the AI, for acceptance before implementation.
3. After receipt of the accepted revisions, the QCM issues a transmittal in duplicate to each manual holder recording each manual revision and attaches a copy of the revised section for each. Each recipient is requested to date and sign the transmitted documents, and to return one copy to the QCM.
4. Each holder is responsible for removing and destroying obsolete pages and exhibit issues and inserting new revision issue copies as received.
5. Should that recipient not return the copy within a reasonable time including follow-up, that manual holder's book shall cease to be classed as a controlled issue manual.

Manual No.	Name of Registered Holder	Manual Issued	Manual Revised
1	Quality Control Manager		
2	Manager		
3	Quality Control Coordinator - Shops		
4	Professional Engineer		
5	Authorized Inspector		

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REVISION LIST

Revision Number	Section Reference	Description	Issue Date	Issued By	AI Date
0	All	New Manual submission	Feb 2001	AJP Eng;g	
1	All	Manual Re-audit	Nov 2004	AJP Eng'g	
2	All	Manual Re-audit	Apr 2009	AJP Eng'g	

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COMPANY PROFILE

General

DERKSEN MECHANICAL SERVICES INC. is a mechanical contractor engaged in fabrication, installation, modifications and repair of pressure piping, and pressure vessels and also related mechanical services.

DERKSEN MECHANICAL SERVICES INC. provides specialized mechanical services for industrial and commercial mechanical services

OFFICIAL COMMUNICATION

COMPANY	Derksen Mechanical Services Inc.
ADDRESS	125 Higgins Ave
CITY/PROVINCE/POSTAL CODE	Winnipeg, Manitoba, R3B 0B6
TELEPHONE	204-668-4450
FAX	204-663-4969
CONTACT	Cory Nicholson

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1. GLOSSARY**Abbreviations used are defined as follows:**

AI	Authorized Inspector
AIA	Authorized Inspection Agency
ANSI	American National Standards Institute
ARR	Alteration and Repair Record
ASME	American Society of Mechanical Engineers
ASNT	American Society for Nondestructive Testing
AWS	American Welding Society
B31	Piping Code
B51	Boilers, Pressure Vessels and Pressure Piping Code
B52	Mechanical Refrigeration Code
CGSB	Canadian General Standards Board
COC	Certificate of Compliance
CRN	Canadian Registration Number
CSA	Canadian Standards Association
DOL	Manitoba Department of Labour
MDR	Manufacturers' Data Report
MTR	Mill Test Report (or Material Test Report)
NBIC	National Board Inspection Code Non-
NCR	Conformance Report Non-Destructive
NDE	Examination Non-Destructive Testing
NDT	Procedure Qualification Record
PQR	
QC	Quality Control
QCM	Quality Control Manager
SA/SB	ASME material designations
SFA	ASME designation for filler metals
WPS	Welding Procedure Specification

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GLOSSARY (Cont'd)

REPAIR

Means any modification to a SYSTEM in which the operation, intent and design is unchanged by the action.

ALTERATION

Means any change or addition to the part in which the design and/or intent is changed from the original operation through repair or installation of new pressure components, vessels, boilers and piping and is in excess of 17 cubic feet aggregate volume.

SYSTEM

A common term including piping, pressure components and/or pressure vessels.

CODE

The ASME Boiler and Pressure Vessel Code, Piping Code or CSA Codes.

TRAVELLER

The record sheet for monitoring the inspection and test plan of the QC program.

ITEM

Implies a pressure vessel, component, piping assembly or other pressure retaining part.

DELEGATE

Duties and responsibilities assigned to any team member may also be delegated to another person competent in the same area of duty and under the direct supervision of the team member. Accountability for the work remains with the original team member.

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2

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2 MANUAL CONTROL

- 2.1** A.J.P. Engineering Services has prepared the Quality Control Manual. The AI must provide final approval before implementation.
- 2.2** The Quality Control Manager will issue controlled copies of the manual in accordance with the list of Manual Holders. Each manual will bear the same control number on its title page as is shown on the list.
- 2.3** Code Addenda are advised by the Engineer to the Quality Control Manager who will review them to determine the need for revisions to the Quality Control Program. When revisions are required, they are presented to the Authorized Inspector for his acceptance, and then distributed to Manual Holders.
- 2.4** Revisions are made by section and are indicated on the affected pages by bold type and a vertical line in the right-hand margin adjacent to the changed wording.
- 2.5** Revisions to this manual shall be approved only by the QCM and must be accepted by the AI prior to implementation. Revisions will be made by section, except for exhibits.
- 2.6** Revised sections of the manual are issued by the QCM to Manual Holders on the list, together with a revised Table of Contents page showing the latest Revision No. and date of each section of the manual, and the dated signatures of the Quality Control Manager and the Authorized Inspector.
- 2.7** Revised exhibits are issued individually with a revised "Sample Forms" page.
- 2.8** A copy of this manual shall be made available to the AI at the shop and at field sites.
- 2.9** The QCM is responsible for maintaining the contact between the Company and the Authorized Inspection Agency (AIA).

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3 POLICY

3.1 SCOPE

This manual describes the quality control procedures being employed by **Derksen Mechanical Services Inc.**, to fabricate, repair or modify pressure piping and perform repairs on piping, or pressure vessels under the rules of the applicable codes as listed in Section I.

3.2 PURPOSE

To denote that **Derksen Mechanical Services Inc.**, deems necessary the establishment and maintenance of a quality control program and system to assure that all repairs and/or modifications conform to the applicable Codes, providing such requirements do not lower the quality of the level specified.

To define the Quality Control (QC) system and to describe the quality control procedures to our employees, suppliers, customers, as deemed necessary by the Company.

To demonstrate to customers, QC inspectors, surveillance teams, and any others, our capability to control the quality of repairs and modifications at our various sites.

3.3 CUSTODIAN

The Quality Control Manager is responsible for Quality Control and maintains controlled copy No. 1 of the Quality Control Manual, including any required revisions.

The Quality Control Manager is responsible for the program compliance in the shop and at the various field sites.

3.4 METHODOLOGY

The Quality Control Program is defined in the body of the manual and repairs or modifications will be monitored through the use of various forms including the Alteration and Repair Record and/or TRAVELLER, which defines various activities and identifies key hold points throughout the project.

All work described and performed under this quality control program for the fabrication, alteration, repairs, installation and testing shall be performed by qualified trades personnel.

Although duties and responsibilities are defined throughout the manual for the QC program members, each member may, at their discretion, delegate an alternate qualified person to perform these duties. The original member shall in all instances remain accountable for the work and the successful completion in accordance with the applicable Code requirement.

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STATEMENT OF AUTHORITY

Derksen Mechanical Services Inc., hereby submits to any and all concerned, the following statement, regarding the authority and responsibility for the establishment and enforcement of the Company's Quality Control Program.

This manual contains the requirements deemed necessary by the Company for the shop fabrication and field assembly and erection of piping systems in accordance with CSA B 51 and ASME B 31.1 Power Piping, ASME B 31.3 Process Piping, B3 1.5 Refrigeration Piping and ASME B3 1.9 Building Services Piping codes.

This Quality Control Manual has my full support and approval and shall be used by all personnel engaged in the design, fabrication and inspection of the work. The work shall include all repairs, alterations, testing of pressure vessels, fabrication and repairs to pressure piping built in this plant or on field sites in accordance with the applicable Codes as shown in Section I. It is mandatory that the said personnel operate in accordance with the above Codes and Regulations.

Full authority and responsibility for the implementation of the procedures detailed in this manual rests with the QCM, who shall have the final and complete authority within the Company, regarding the acceptance or rejection of any material, procedures or workmanship related to said systems. The QCM's decision on such matters shall be final, provided there is no contravention of the above noted Codes or the pressure piping system.

Signed:

President Brad Mason

Date:

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