



NATIONAL PETROCHEMICAL COMPANY
STANDARDS

MATERIAL STANDARD
FOR
WASTE HEAT BOILERS

NPCS-MS-HM-05

REVISION : 0

DECEMBER 1992



CONTENTS

GENERAL

SCOPE

STANDARDS AND CODES

SPECIFIC DESIGN CONDITIONS

MATERIALS

REFRACTORY INSULATION AND CASING

TOOLS

VALVES, FITTINGS AND INSTRUMENTATION CONNECTIONS

FABRICATION

INSPECTION

PREPARATION FOR SHIPMENT

FIELD TESTING

THIS DOCUMENT IS THE PROPERTY OF NPC. IT IS CONFIDENTIAL AND ALL RIGHTS RESERVED. TO THE OWNER NEITHER THE WHOLE NOR ANY PART OF THIS DOCUMENT MAY BE DISCLOSED TO ANY THIRD PARTY, REPRODUCED, STORED IN ANY RETRIEVAL SYSTEM OR TRANSMITTED IN ANY FORM OR ANY MEANS WITHOUT THE PRIOR WRITTEN CONSENT OF NPC.



1 GENERAL

- 1.1 This standard covers the minimum requirements for waste heat boilers.
- 1.2 In case of any conflict between this standard and the requisition, data sheet or purchase order, the order of precedence shall be as follows:
- a) Purchase order:.
 - b) Data sheet and inquiry or purchase order requisition.
 - c) This standard.
 - d) Other engineering specification referred to.
- 1.3 Compliance by the manufacturer with the provisions of this standard does not relieve him of the responsibility of furnishing unit of proper design.

2 SCOPE

- 2.1 The scope shall include, but shall not be limited to:
- 2.1.1 Complete self-supporting boiler for outdoor installation.
 - 2.1.2 All instrumentation and panels in the extent requested in this standard, the requisition and/or attached documents.
 - 2.1.3 All refractory and insulation.
 - 2.1.4 Special tools required for erection and maintenance.
 - 2.1.5 Testing and facilities for inspection at shop.
 - 2.1.6 Installation, erection, operation and maintenance manuals, and other relevant documents.
 - 2.1.7 Packing for marine transportation.
 - 2.1.8 Supervision for erection and commissioning.
 - 2.1.9 Recommended equipment maintenance schedules.

THIS DOCUMENT IS THE PROPERTY OF NPCC. IT IS CONFIDENTIAL AND ALL RIGHTS RESERVED. TO THE OWNER NEITHER THE WHOLE NOR ANY PART OF THIS DOCUMENT MAY BE DISCLOSED TO ANY THIRD PARTY WITHOUT THE WRITTEN PERMISSION OF NPCC.