

C&H SERVICES SBU



The systematic way to eliminate potential safety hazards

What is **iServe**?

iServe is a structured and systematic examination of boiler and heater processes or operations, to identify and evaluate problems that may pose risk to personnel or equipment, or prevent efficient operations. It is called as HAZOP study.

Basic concept

- **iServe** procedure involves studying of boiler/ heater process and systematically questioning every part of it to establish how deviations from the design can arise.
- An assessment is made as to whether such deviations and their consequences can have a negative effect on safe and efficient operation of the boiler/ heater. If considered necessary, action is then taken to avoid such unsafe operation.
- Critical analysis in a structured way under **iServe** study avoiding potential failures & problems is unique way to avoid unsafe operation which is not experienced earlier.

When to perform **iServe**

iServe study is generally carried out -

- while installing new boiler / hot water / Thermic fluid system.
- on existing boilers & heaters when there is,
 - Some history of accident or unsafe operation
 - The systems are very old (more than 5 year) & needs upgradation
 - The system is not studied for any safety hazards in the past

Types

Process **iServe:** This technique is developed to assess boiler & heater plant and process systems.

Procedural **iServe:** Review of existing procedures & operational practices of boilers & heater, also referred as Safe Operational Studies.

Applications

- Equipments : Boiler / Hot Water System / Heater system
- Systems : Steam distribution, Thermal oil, Hot water, Fuel systems

Why Thermax?

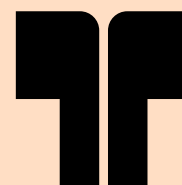
- Expertise in process & equipments
- Wide experience of conducting HAZOP studies.



Benefits

- Improvement of system or operation
- Reduced risk & better contingency
- Solutions to the identified problems of process or equipment
- Procedure improvements either in logical order or with respect to completeness
- Creating culture of safety to avoid hazards
- Minimum breakdown occurrences
- Review available safeguards for adequacy and suggest remedial action.

In view of our constant endeavour to improve the quality of our products, we reserve the right to alter or change specifications without prior notice. All photographs shown in this publication are representative in purpose, and to be used for reference only. For actual details and specifications, please refer to Thermax offer document.



THERMAX

Sustainable Solutions in
Energy & Environment

COOLING & HEATING DIVISION Services SBU

D - 13, MIDC Industrial Area, R. D. Aga Road,
Chinchwad, Pune 411 019. INDIA
Tel. : +91-20-2747 5941
Tel. : +91-20-2747 7080
E-mail : info.c&hservices@thermaxindia.com

AHMEDABAD 380 006

Tel. : (079) 2657 5408 / 5341 / 7073
Fax : (079) 2657 7270
E-mail : mambiar@thermaxindia.com

BANGALORE 560 020

Tel. : (080) 2346 7761 - 64
Fax : (080) 2346 7760
E-mail : adminblr@thermaxindia.com

CHENNAI 600 018

Tel. : (044) 2435 3831 - 34
Fax : (044) 2435 3841
E-mail : chennaidivsupp@thermaxindia.com

HYDERABAD 500 482

Tel. : (040) 2339 6820, 2331 0254
Fax : (040) 2331 2335
E-mail : hyd_sec@thermaxindia.com

MUMBAI 400 016

Tel. : (022) 2204 5391, 2204 5324
Fax : (022) 2204 0859
E-mail : psecretar@thermaxindia.com

NEW DELHI 110 057

Tel. : (011) 2614 5319, 2614 5701
Fax : (011) 2614 5311, 2614 8679
E-mail : psupport@thermaxindia.com

KOLKATA 700 017

Tel. : (033) 2282 6711 - 13
Fax : (033) 2282 6796
E-mail : mbiswas@thermaxindia.com

International Offices:

MIDDLE EAST (DUBAI)

Tel: +9714-8861424; E-mail:
info@thermaxdubai.ae

SOUTH EAST ASIA (MALAYSIA)

Tel: +60127798493
Email: thermax@tm.net.my

HO, AFRICA, SAARC & OTHER COUNTRIES

Tel: +91-20-66128802/8818/8845
Email: info.c&hservices@thermaxindia.com

International offices:

Indonesia, Russia, Kazakstan, Saudi Arabia,
Bangladesh, Sri Lanka, Hong Kong, China,
Thailand, Malaysia, Philippines, UAE, Kenya,
Nigeria, Brazil, UK, USA

Thermax Business Portfolio

Boilers & Heaters

Absorption Cooling

Air Pollution Control

Captive Power

Chemicals

Water & Waste Solutions