

PETRONAS TECHNICAL STANDARDS
HEALTH, SAFETY AND ENVIRONMENT

THERMAL STRESS PROTECTION PROGRAM
(GUIDELINE)

PTS 60.1505

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PREFACE

Petronas Technical Standards (PTS) are based on the experience acquired during the involvement with the design, construction, operation and maintenance of processing units and facilities. Where appropriate they are based on, or reference is made to, national and international standards and codes of practice. The objective is to set the recommended standard for good technical practice applied by PETRONAS in oil and gas production facilities, oil refinery, gas processing, chemical plants, marketing facilities or any other such facility, and thereby to achieve maximum technical and economic benefit from standardisation.

The information set forth in these publications is provided to users for their consideration and decision to implement. This is of particular importance where PTS may not cover every requirement or diversity of condition at each locality. The system of PTS is expected to be sufficiently flexible to allow individual operating units to adapt the information set forth in PTS to their own environment and requirements.

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AMENDMENTS RECORD SHEET

Chap. No.	Sect No.	Description	Issue No.	Date	Rev No.	Date	App by: (initial)
All	All	PTS 60.124 THERMAL STRESS	1	Sept 04	0	0	IGA

Chap. No.	Sect No.	Description	Issue No.	Date	Rev No.	Date	App by: (initial)
All	All	PTS 60.1108 THERMAL STRESS	1	June 05	0	0	IGA

Chap. No.	Sect No.	Description	Issue No.	Date	Rev No.	Date	App by: (initial)
All	All	PTS 60.1505 THERMAL STRESS PROTECTION PROGRAM	2	June 06	1	June 06	IGA

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1. **INTRODUCTION**

A wide variety of PETRONAS employees and contractor personnel work in environments and jobs which cause heat or cold (thermal) stress. The effects of thermal stress may range from discomfort and decreased activity to increased accident risk and death.

It is essential for line management and workers to know some basic facts about thermal stress: how the human body produces heat, how the body is cooled, how heat and cold stress are measured, how to prevent untoward health effects and how to handle medical emergencies.

This package provides management guidance for the control of thermal stress.