Management of Thermal Stress

Approved:  June 8, 2000
Revised:  November 4, 2014
Next Review:  November 4, 2019

1. GENERAL

Thermal stress is a temperature and humidity-related phenomenon that can negatively impact the human body with immediate and/or long-term health effects. Thermal stress normally occurs in varying degrees as heat cramps, heat exhaustion, heat stroke, or frostbite. Thermal stress may also be brought on by work that alternates between hot and cold extremes. Advanced stages of thermal stress may represent a true medical emergency and should be handled as such. Where feasible, engineering controls are the preferred measures to reduce thermal exposure, followed by the use of administrative controls and/or personal protective equipment.

2. PROGRAM GUIDELINES

Each member should:

(a) Identify workplace hazards associated with potential thermal stress;
(b) Develop programs and safe work practices to reduce risk to employees, students and visitors for identified hazards; and
(c) Provide and document safety training to affected employees, students, and visitors for identified hazards.

3. THERMAL STRESS MANAGEMENT PROGRAM

Affected members should develop and implement a thermal stress management program to include:

(a) Training that addresses:
   - Potential causes of thermal stress;
   - Methods to prevent thermal stress;
   - Recognition of thermal stress symptoms; and
   - First aid for thermal stress-related disorders.

(b) Shift work and frequent work breaks where applicable to reduce exposure duration to extreme thermal conditions;

(c) Other items to minimize the risk of thermal stress (e.g., drinking water, “cool vests,” etc.); and

(d) Employee medical surveillance, if applicable.