Heat Illness Prevention Environmental Health and Safety

I. Purpose

- v. Notify Northwestern project managers or representatives of work areas that may contain heatelated hazards and employees who may be experiencing signs or symptoms consistent with possible headated illness
- vi. Oversethe acclimatization of new employees and employees who have been off the job for a period of time.

IV. Evaluation and Determination of Heat Hazards

- A. When the heat index is 80 ahrenheit (For higherin indoor (e.g., mechanical rooms, utility tunnels, steam vaults, utility plants) and outdoor environmesterious beat-related illnesses and injuries become more frequent, especially in workplaces:
 - i. Without easy access to cool water or cool/shaded areas
 - ii. When working in direct sunlight or areas where other radiant heat sources are present
 - iii. Where unacclimatized workers are performing strenuous work (e.g., intense arm and back/lifting work, carrying, shoveling, manual sawing, pushing and pulling heavy loads, and walking at a fast pace).
 - iv. In full sunshine, which can increase heat index values by up to 15°F.
- B. A heat priority areaexists when:
 - i. The<u>heat index</u>is expected to be 80°F or more, or
 - ii. The National Oceanic and Atmospheric Administration (NOAA) or National Weather Service (NWS) has announced a heat warning, heat advisoessive heat outlook, excessive heat watch, excessive heat warning, excessive heat advisory, or heat wavfer the local area.
- C. Heat priority areasare categorized into four risk levels as follows:

Heat Index	Risk Level	Protective Measures	
Less than 91°F	Lower (caution)	Basic heat safety and aning	
91° to 103°F	Moderate	Implement precaution & heightered awareness	
103° to 115°F	Highddl 0 0 5.6 re W	rinplergent additional precaluto hs 5.6 re f* EMC	/Arti5.6335.76

V. Heat Illness Preventid Plan Activation

A. When individuals are exposed to hepatority areas(see

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X. Regulatory Authority and Related Information

Northwestern and contractors will comply with Occupational Safety and Health Administration (OSHA) standards, and any other applicable c**ade**standards, including:

National Institute for Occupational Safety and HealMIQSHRecommended Heat Standard: Occupational Exposure to Heat and Hot Environments NIOSHFirst Aid for Heat IIIness OSHA Technical Manual (OTM) Section III: Chaptereat-Stress OSHA Heat IIIness Prevention Campaign OSHANIOSH InfoSheet: Protecting Workers from Heat IIIness Centers for Disease Controllo@Workplace Safety and Health Topics: Heat Stress NIOSH Criteria for a Recommended Standard: Occupational Exposure to Heat and Hot Environments American Conference Governmental Industrial Hygienists (ACGIH) National Weather Service (NWS) National Oceanic and Atmospheräctministration (NOAA) OSHANIOSH Heat Safety Tool App

XI. Contact

For questions contact Environmental Health and Safethers@northwestern.edor (847) 467 6342.

Appendix 1– Heat Illness Prevention Example Control Measures

Departments and contractors must implement the necessary combination of controls when individuals are exposed to heat hazards to prevent healated illness.Below are examples of control measuse

- A. Engineering controls
 - i. Air-conditioning.
 - ii. Increase ventilation (e.gopening windows ousing cooling far)s
 - iii. Eliminate steam leaks
 - iv. Shut down hot machinery/equipmentwhen feasible
 - v. Run local exhaust ventilation where heat is produced (e.g., laundry vents)
 - vi. Use refltve exposdsamoam

- iv. Dermal patches formonitoring core temperature to identify when individuals need to be removed from the work area.
- v. Heart rate monitoring to identify when individuals need to be removed from the work area. Both sustained (180 bpm minus age) and recovery (120 bpm after a peakwork effort) heart rates are recommended guidelines to prevent heat-related illness.