

2.4. District Cooling Plants and Cooling Towers– Fire and Life Safety

2.4.1. General

2.4.1.1. The requirements of this chapter provide minimum fire and life safety guidelines for District Cooling facilities and cooling towers.

2.4.1.2. The Fire and Life Safety requirements for district cooling plants and cooling towers shall comply with **Table 14.4.**

Table 14.4.: Fire and Life Safety Requirements for District Cooling facilities and Cooling Towers

HAZARD/ LOCATION	REQUIREMENTS
1. PUMP ROOMS (CHILLED WATER PUMPS, MAKE UP WATER PUMPS) 2. R.O. PLANT (REVERSE OSMOSIS) 3. CHILLER ROOMS	<u>1. CONSTRUCTION</u> i. Plant shall be compartmented into separate fire areas, such as pump rooms, control rooms, electrical equipment rooms, battery rooms etc. with 2 hour fire resistance rated walls Chapter 1. Construction. <u>2. LIFE SAFETY</u> i. Minimum of 2 exits shall be provided for the pump rooms, in compliance with Chapter 3. Means of Egress. ii. Exit Signs shall be provided as per Chapter 5. Exit Signs. iii. Emergency Lighting shall be provided as per Chapter 6. Emergency Lighting <u>3. VENTILATION</u> i. Ventilation shall be provided in compliance with Chapter 10. Smoke Control Systems. <u>4. FIRE DETECTION</u> i. Heat Detection and Alarm System shall be provided, as per Chapter 8. Fire Detection and Alarm System. <u>5. FIRE PROTECTION</u> i. Automatic Water Sprinkler shall be provided as per Chapter 9. Fire Protection Systems. ii. Wet Risers shall be provided throughout in accordance with Chapter 9. Fire Protection Systems. iii. Fire extinguisher shall be provided as per Chapter 4.
4. TRANSFORMERS 5. CAPACITOR BANKS 6. SWITCHGEAR ROOMS 7. CABLE SPREADING ROOMS 8. CONTROL ROOMS 9. BATTERY ROOMS 10. BATTERY CHARGER ROOMS	i. Fire and Life safety, Fire Detection and Fire Protection requirements for these hazards and locations, if any, shall be in accordance with Section 2.1. Substations , of this chapter.