

**Monitoring & Trending Request Form**

**Project:**

To: _____ _____					Unit ID(s): _____		Unit ID(s): _____		
From: _____					Trend Period: _____		Trend Period: _____		
Date: _____					thru _____		thru _____		
ID	Trend Group ID [4]	Point	Method: (EMS or DL) [1]	Give SetPt & Sched Y/N	Trend Point? Y / N	Time Step (min)	Trend Point? Y / N	Time Step (min)	Purpose of Monitoring
<b>COOLING PLANT</b>									
1		OSAT							
2		Chiller status							
3		LCHW temp							
4		ECHW temp							
5		ECDW temp							
6		LCDW temp							
7		CHW flow through bypass							
8		CHW flow direction in bypass							
9		Secondary CHW flow or current							
10		CHWP ___ (lead secondary) RPM or amps							
11		CHWP ___ (lag secondary) RPM or amps							
12		DP controlling secondary CHW pumps							
13		DP across CHWP ___ (lead primary)							
14		DP across CHWP ___ (lead secondary)							
15		Status of CHWP ___ (lag primary)							
16		CT valve position (% open)							
17		CT bypass valve position (% open)							
18		CT fan speed or current							
19		Chiller kW							
20		Chiller compressor current							
21		Primary chilled water pump current							
22		Condenser water pump current							
23		Alarms							
24		Unit run change of state & command (ON/OFF) and reason (schedule or process)				na		na	
25									
26									
27									
28									

**Abbreviations:**

- |                              |                            |                   |                            |
|------------------------------|----------------------------|-------------------|----------------------------|
| CD = condenser water         | DL = dataloggers           | MA = mixed air    | RH = relative humidity     |
| CH = chiller                 | DP = differential pressure | Min. = minutes    | SA = supply air            |
| CHW = chilled water          | EMS = energy manage. sys.  | OSA = outside air | SP = static pressure       |
| CT = cooling tower           | HW = hot water             | ...P = pump       | ...S = supply              |
| DA = discharge air near coil | L & E = leaving & entering | R = return        | T = temperature            |
|                              |                            | RA = return air   | VFD = variable freq. drive |

**NOTES:**

1. All trends are assumed to be via the EMS, unless noted "DL" for DataLogger, in the "EMS or DL" column.
2. Provide an explanation of the trend column heading abbreviations and provide current setpoints applicable for interpreting the data and the schedule for this equipment to be ON or OFF, as requested in the "Give SetPt & Sched" column
3. Trend output data must be in an ASCII delimited text file with time continuous down left column and point values in column(s) to the right. Alternating from one time point to the next down the file with groups of trend points is not acceptable. If there is a question about the trend output format, contact the commissioning agent.
4. All trends for points of a group must start at the same moment in time, unless specifically OK'd otherwise with the commissioning agent.