

# WES

## Worldwide Environmental Services

### Environmental Monitoring & Support Program - EMP

The Environmental Monitoring & Support Program (EMP) is a multi-visit, multi-year support program that includes periodic site inspections, on-site assistance and remote technical support.

**Maintaining an appropriate environment for mission critical hardware is an essential component of system availability.**

Worldwide Environmental Services - WES - is a global provider of high availability environmental assessment, design and remediation services for mission critical electronic equipment facilities. WES has performed more than 5000 engagements at customer facilities in over 30 countries over the past 25 years, and has partnered with leading computer hardware manufacturers and services companies to provide integrated solutions at customer sites spanning all markets. As an industry leader with a unique knowledge-base, WES is committed to raising industry awareness regarding the impact of the environment on mission critical computer equipment and providing services and solutions to help customers avoid unplanned downtime.

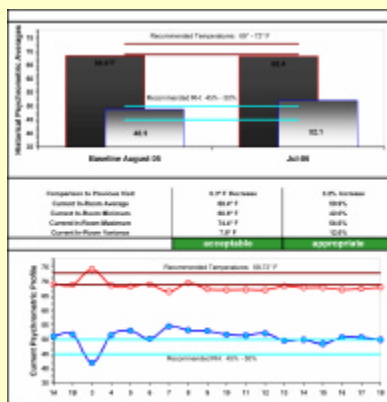
The EMP is a program of periodic site assessments and remote technical support designed to provide practical assistance with the issues that arise in a complex and dynamic facility. It provides many of the same benefits as the Environmental Site Assessment (ESA), with the addition of direct assistance for implementation of corrective actions and an ongoing resource to address both existing issues and future planning needs.

The program includes the following major work elements:

- **On-site Testing** - Temperature, relative humidity, air distribution, particulate concentrations, etc.
- **Specialized Testing** - Focused testing for power quality, contaminant analysis, life-safety issues, etc., conducted on rotating or as-needed basis
- **Physical Examination** - Visual inspection of conditions in room, plenum, hardware, environmental support equipment, etc.
- **Equipment & Cabinets** - Configuration, layout, influences from other hardware or A/C, conditions, air distribution, specifications, etc.
- **Monitoring** - Examination of monitoring equipment & data, installation of short-term data-loggers
- **Control** - Sensor calibration checks, set-point modifications, coordination with support personnel
- **Air Distribution Optimization** - Relocation of air distribution tiles, assistance with addressing oversized floor-cut-outs, perimeter plenum inspections, etc.
- **Future Planning** - Assistance to site personnel in planning or modifying hardware layout, cabinet design, environmental support equipment, etc.
- **Technical Resources** - Assistance with technical issues, hardware specifications, industry standards, etc.
- **Technical Assistance** - Coordination with internal groups, maintenance companies, contractors, etc. regarding environmental issues
- **Training** - Limited on-site or remote training available regarding environmental awareness or specific issues (such as cleaning practices)
- **Ongoing Trending** - Historical data and evaluation of trend conditions measured during site visits
- **Site Visit Reports** - Reports detailing site conditions, findings and recommendations
- **Remote Technical Support** - Availability for remote consulting via telephone, mail or email

Program options varying in contract duration or number of visits per year are available, but all programs include remote support for the duration of the contract.

A/C Set Point Adjustments						
Unit Designation	Temperature Setpoints	Indicated Temp.	WES Sensor	Rh Setpoints	Indicated Rh	WES Sensor
25 (Bottom)	69%±1%F	69.0°F	69.8°F	50%±5%Rh	49.0%	45.1%
25 (Above)	69%±1%F	69.9°F	70.3°F	50%±3%Rh	46.0%	43.3%
26 (Bottom)	69%±1%F	69.9°F	70.3°F	50%±3%Rh	46.0%	43.3%
26 (Above)	69%±1%F	71.1°F	70.7°F	50%±2%Rh	40.9%	40.2%
27 (Bottom)	69%±1%F	71.0°F	72.0°F	50%±3%Rh	44.0%	41.5%
27 (Above)	69%±1%F	71.0°F	70.2°F	50%±3%Rh	48%	42.9%
34 (Above)	69%±1%F	71.0°F	69.9°F	50%±1%Rh	47.0%	42.2%
35 (Bottom)	69%±1%F	71.0°F	69.9°F	50%±1%Rh	47.0%	42.2%
35 (Above)	69%±1%F	71.0°F	69.9°F	50%±3%Rh	47.0%	42.2%



To engage WES services, please contact a Support Specialist at:

support@wes.net

Or visit our website for more information:

www.wes.net

Worldwide Environmental Services  
 +1 215 619 0980 / 800 843 5307  
 0800 028 7448 (From UK)  
 www.wes.net · support@wes.net