



E6-85

SEMI FACILITIES INTERFACE SPECIFICATIONS FORMAT

1. Introduction

1.1 The following document is a model or checklist that will help ensure complete communication between the equipment supplier and the customer facilities manager. Similar materials for confirmation to the manufacturer are being compiled and will be inserted in a future publication.

1.2 The efficient installation of new equipment into a new site requires that space be allocated and adequate facilities prepared before the delivery and start-up of this equipment. Because this format is expected to serve the needs of a broad spectrum of suppliers, there are sections which may not be pertinent to a given piece of equipment. Conversely, special facilities

may need to be stipulated by the supplier, or the customer, to meet specific requirements not listed herein.

1.3 The units of measure in this kind of a specification are always a problem. The tradespeople, who will be doing the bulk of the actual work, tend to be very conservative about accepting new units or designations. Since the success of the installation will depend to a large extent on these tradespeople, it becomes incumbent upon the specification to be clear and concise to the people doing the work. Therefore, the attempt has been made to use units which are most common and accepted.

2. Model Format

Date Issued _____

Rev A _____

Rev B _____

1. ADMINISTRATIVE INTERFACE

A. ADMINISTRATIVE INTERFACE

Company Name _____

Address _____

Contact _____ Phone (____) _____

Sales Representative (if different than manufacturer)

Company Name _____

Address _____

Contact _____ Phone (____) _____

Installation and Start-up Organization Information

Organization Name _____

Mailing Address _____

Contact _____ Phone (____) _____

Title _____



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B. PURCHASER (USER) INFORMATION

Company Name _____

Address _____

Contact _____ Phone (____) _____

Title _____

Installation Location (if different than above)

Organization Name _____

Installation Address _____

Contact _____ Phone (____) _____

Title _____

Special Instructions for finding installation location:

C. EQUIPMENT IDENTIFICATION

Equipment Vendor and Type _____

Model _____ Serial Number _____

Quotation # _____ Purchase Order # _____

Sales Order # _____ Project Serial # _____

Generic Description of Equipment: _____



2. FACILITIES INTERFACE

It is expected that the following facilities will be installed and operational before the start-up of the above mentioned equipment.

A. ENVIRONMENTAL

	During Operation	During Idle Operation	During Storage
Room Temperature			
Maximum ____ °F	(____ °C)	____ °F (____ °C)	____ °F (____ °C)
Minimum ____ °F	(____ °C)	____ °F (____ °C)	____ °F (____ °C)

Relative Humidity at ____ °F (____ °C)

	Max ____ %	Max ____ %	Max ____ %
	Min ____	Min ____	Min ____
Air Particulate	Class ____	Class ____	Class ____
Count Local to			
Machine	or better	or better	or better

Air Exchange Rate			
	Exchanges/hour	Exchanges/hour	Exchanges/hour

Special Lighting Requirements _____

Additional Requirements _____

The following specifications are applicable for protection during storage:



B. ELECTRICAL

See Services Layout _____ for position, types of connections, and their plug configuration.

Supply: Volts _____ VAC _____ Max _____ Min
Phases _____ Transformer Configuration _____
(Δ , Y, other)

Number of Wires _____ Frequency _____ Hertz

Current: Peak _____ amps; Steady State _____ amps
Idle _____ amps

Power Factor _____

Applicable Electrical Code _____

Specific Requirements:

Isolation: _____

Grounding: _____

Other: _____

Emergency Power Requirements _____

See Services Layout for customer supplied controls (e.g., motor starter, disconnect, special fusing, etc.).

C. COMPUTER INTERFACE (Section Proposed)

This equipment has a computer interface Yes _____ No _____

The interface completely conforms to conventions established by

SEMI Standards SECS I Revision Date _____ Yes _____ No _____

SEMI Standards SECS II Revision Date _____ Yes _____ No _____

The message documentation for SECS II according to the standard form described in part 6 of SECS II is attached. Yes _____ No _____

Describe the interface used if not SECS. Include modifications to or deviations from SECS.

Detailed documentation is attached

Yes _____ No _____



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D. WATER

Recirculated Cooling Water: ☐ Applicable

☐ Not Applicable

Maximum inlet temperature °F (°C)

Minimum inlet temperature °F (°C)

Maximum inlet pressure psig (kg/cm²)

Minimum Delta pressure psig (kg/cm²)

at a Flow gpm (liters/minute)

Water to be filtered to microns and treated to prevent precipitation for a temperature rise of °F (°C)

Resistivity Range: Maximum Meg Ohm/cm³

Minimum Meg Ohm/cm³

The equipment is supplied with fittings designed to connect with:

Diameter material pipe/tube with MALE FEMALE connector equal to those supplied by:

Manufacturer:

Description of Part:

Part Number:

Instrumentation to be supplied and installed by user:

Water Temperature Gauge Range °F (°C)

☐ Required ☐ Suggested ☐ Temporary Only

Pressure Gauge Inlet Range psi (kg/cm²)

☐ Required ☐ Suggested ☐ Temporary Only

Pressure Gauge Outlet Range psi (kg/cm²)

☐ Required ☐ Suggested ☐ Temporary Only

Flowmeter Range gpm (liters/min)

☐ Required ☐ Suggested ☐ Temporary Only

Flowmeter Interlock Range gpm (liters/min)

Signal Voltage VDC

☐ Required ☐ Suggested ☐ Temporary Only



Domestic Cooling Water: _____ Applicable

_____ Not Applicable

Maximum inlet temperature _____ °F (_____ °C)

Minimum inlet temperature _____ °F (_____ °C)

Maximum inlet pressure _____ psig (_____ kg/cm²)

Minimum Delta pressure _____ psig (_____ kg/cm²)

at a Flow _____ gpm (_____ liters/minute)

Water to be filtered to _____ microns and treated to prevent precipitation for a temperature rise of _____ °F (_____ °C)

The equipment is supplied with fittings designed to connect with:

_____ Diameter _____ material pipe/tube with _____ MALE _____ FEMALE connector equal to those supplied by:

Manufacturer _____

Description of Part _____

Part Number _____

Instrumentation to be supplied and installed by user:

Water Temperature Gauge Range _____ °F (_____ °C)

_____ Required _____ Suggested _____ Temporary Only

Pressure Gauge Inlet Range _____ psi (_____ kg/cm²)

_____ Required _____ Suggested _____ Temporary Only

Pressure Gauge Outlet Range _____ psi (_____ kg/cm²)

_____ Required _____ Suggested _____ Temporary Only

Flowmeter Range _____ gpm (_____ liters/min)

_____ Required _____ Suggested _____ Temporary Only

Flowmeter Interlock Range _____ gpm (_____ liters/min)

Signal Voltage _____ VDC

_____ Required _____ Suggested _____ Temporary Only

Deionized Water: _____ Applicable

_____ Not Applicable

Maximum inlet temperature _____ °F (_____ °C)

Minimum inlet temperature _____ °F (_____ °C)

Maximum inlet pressure _____ psi (_____ kg/cm²)

Minimum inlet pressure _____ psi (_____ kg/cm²)

Minimum Delta pressure _____ psig (_____ kg/cm²)

at a flowrate _____ gpm (_____ liters/min)

Water to be filtered to _____ micron



Minimum resistivity _____ Meg Ohm/cm³

This equipment is supplied with fittings designed to connect with pipe/tube of _____ diameter or greater, constructed of _____ material or other materials compatible with DI Water.

The above pipe/tube should be fitted with a _____ MALE _____ FEMALE connector equal to those supplied by:

Manufacturer: _____

Description of Part: _____

Part Number: _____

Instrumentation to be supplied by user:

Pressure Gauge Range _____ psig (_____ kg/cm²)

_____ Required _____ Suggested _____ Temporary Only

Flowmeter Range _____ gpm (_____ liters/min)

_____ Required _____ Suggested _____ Temporary Only

Ohmmeter Range _____ ohms

_____ Required _____ Suggested _____ Temporary Only

E. PROCESS AND SUPPORT LIQUIDS

This section is reserved for possible future use.

F. COMPRESSED AIR _____ Applicable
_____ Not Applicable

Min/Max Supply pressure Range _____ psig (_____ kg/cm²)

Allowable variation once set point established $\pm$ _____ psi ($\pm$ _____ (kg/cm²))

Maximum Flow Rate _____ SCFM

Average Flow Rate _____ SCFM

Air must be oil free to _____ ppm

Maximum moisture content either _____ Dewpoint °F (°C) or _____ ppm filtered to maximum particle size of _____ microns.

This user _____ IS _____ IS NOT expected to supply a pressure regulator equal to those supplied by:

Manufacturer: _____

Description of Part: _____

Part Number: _____



This equipment is supplied with fittings designed to connect with the following type and size tubing/pipe:

fitted with a _____ MALE _____ FEMALE connector equal to those supplied by:

Manufacturer: _____

Description of Part: _____

Part Number: _____

Instrumentation to be supplied by user:

Pressure Gauge Range _____ psig (_____ kg/cm²)

_____ Required _____ Suggested _____ Temporary Only

G. PROCESS VACUUM _____ Applicable

_____ Not Applicable

Vacuum (negative) pressure, minimum _____ in. of Hg

Maximum Flow Rate _____ SCFM

Average Flow Rate _____ SCFM (Based on One Hour's operation)

This equipment is supplied with fittings designed to connect with type and pipe size _____

The supplied equipment with a _____ MALE _____ FEMALE connector supplied by:

Manufacturer: _____

Description of Part: _____

Part Number: _____

Instrumentation to be supplied by user:

Vacuum Gauge Range _____ in. of Hg.

_____ Required _____ Suggested _____ Temporary Only

H. PROCESS EXHAUST

Process Exhaust #1 _____ . Proper operation and safety of this equipment requires attachment to an exhaust system designed to handle _____ class of materials.

Suction Draw Pressure Range: at least _____ in. of H₂O (negative)

not more than _____ in. of H₂O (negative)

At inlet fitting with maximum flow rate _____ SCFM

Once equipment is installed and operating properly, established exhaust must be held within $\pm$ _____ in. of H₂O (negative).

Isolation of Exhaust _____ Required _____ Suggested



This equipment will, under normal operating conditions, exhaust gases at a maximum temperature of _____°C (_____°F).

At any one time during the operating cycle, the following gases are expected to be vented: _____

This equipment is supplied with an exhaust port described as being _____

This exhaust port is designed to connect with flexible tubing equal to the type supplied by _____

and designated by this vendor as Model _____

It is recommended that flues be made from the following classes of materials _____

Instrumentation to be supplied by user:

No Flow Alarm Type _____
_____ Required _____ Suggested _____ Temporary Only

Vacuum Gauge Range _____ in. of water.
_____ Required _____ Suggested _____ Temporary Only

Exhaust Flow Interlock
_____ Required _____ Suggested

Process Exhaust #2 _____. Proper operation and safety of this equipment requires attachment to an exhaust system designed to handle _____ class of materials.

Suction Draw Pressure Range: at least _____ in. of H₂O (negative)
not more than _____ in. of H₂O (negative)

At inlet fitting with maximum flow rate _____ SCFM

Once equipment is installed and operating properly, established exhaust must be held within ± _____ in. of H₂O (negative).

Isolation of Exhaust _____ Required _____ Suggested

This equipment will, under normal operating conditions, exhaust gases at a maximum temperature of _____°C (_____°F).

At any one time during the operating cycle, the following gases are expected to be vented: _____

This equipment is supplied with an exhaust port described as being _____