

## AMAT CENTURA P2 SUPER-E ETCH FIELD AUDIT

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### General Mainframe Configuration (Enter an "X" to describe what is present on the system)

#### Facilities Type:

#### Diagram A and B

Phase I w/Basic Inert Gas Lines  
 Phase I w/ Ebay Manifold  
 Phase II 5ra Regulated  
 Phase II 5ra Unregulated  
 Phase II 10ra Regulated  
 Phase II 10ra Unregulated

|   |
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|   |
|   |
|   |
| X |
|   |

#### Facilities Orientation:

#### Diagram G

Bottom Connection

|  |
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|  |
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Back Connection

|   |
|---|
| X |
|---|

Mainframe Exhaust Line:

304SST

|   |
|---|
| X |
|---|

316SST

|  |
|--|
|  |
|--|

Type Unknown

|  |
|--|
|  |
|--|

GEM Interface present

Yes

|  |
|--|
|  |
|--|

No

|   |
|---|
| X |
|---|

#### Loadlock Type:

Wide Body w/o Autorotation

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|  |
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Wide Body w/Autorotation

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Narrow Body w/ Tilt-out and Dummy Wafer Storage

|   |
|---|
| X |
|---|

Heated Loadlocks w/ N2 purge

Yes

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|  |
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No

|   |
|---|
| X |
|---|

#### Orienter Chamber Options

Orienter Lid Hinge Pesent

Yes

|  |
|--|
|  |
|--|

No

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|  |
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Narrow Hoop Orienter Present

Yes

|   |
|---|
| X |
|---|

No

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|  |
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**Transfer Chamber:**

On-the-Fly Centerfinding:

Yes

☐

Wafer on Blade Detector:

Basic

☒

Enhanced

☐**Robot Type:**

HP

☒

HP+

☐

VHP+

☐**System Endpoint:****(Enter an "X" in the box to describe which is present)**

| Endpoint System        | A | B | C | D |
|------------------------|---|---|---|---|
| Monochromator Endpoint |   |   |   |   |
| Hot Pack Endpoint      |   |   |   |   |

Endpoint Software:

ENDP28

☐

ENDP30

☐

ENDP31 IDEC

☐

ENDP30\_4

☐

ENDP30\_5

☐

Secondary 4 channel PCB:

Yes

☐**Wafer Size/Shape:****(Enter an "X" in the box to describe current wafer type)**

|              | 150 mm | 200 mm |
|--------------|--------|--------|
| JMF (Flat)   |        | X      |
| SNNF (Notch) |        |        |

**Chamber Type/Location (Enter an "X" to describe what is present on the system)**

| Chamber Type        | A | B | C | D | E | F |
|---------------------|---|---|---|---|---|---|
| Metal DPS R1        |   |   |   |   |   |   |
| Metal DPS+          |   |   |   |   |   |   |
| ASP +               |   |   |   |   |   |   |
| DPS Poly Rev 0 (DP) |   |   |   |   |   |   |

|                     |   |   |   |   |   |   |
|---------------------|---|---|---|---|---|---|
| DPS Poly Rev 1 (D1) |   |   |   |   |   |   |
| Poly DPS+ (D2)      |   |   |   |   |   |   |
| DPS Deep Trench(DT) |   |   |   |   |   |   |
| Metal MxP           |   |   |   |   |   |   |
| Metal MxP+          |   |   |   |   |   |   |
| Poly MxP            |   |   |   |   |   |   |
| Poly MxP+           |   |   |   |   |   |   |
| Oxide MxP           |   |   |   |   |   |   |
| Oxide MxP+          |   |   |   |   |   |   |
| Oxide eMxP+         |   |   |   |   |   |   |
| Oxide Super-E       | X | X | X |   |   |   |
| Oxide EMAX          |   |   |   |   |   |   |
| Single Cooldown     |   |   |   |   |   |   |
| Orienter(OA)        |   |   |   |   |   | X |
| Empty               |   |   |   | X | X |   |

(Enter an "X" in the box to describe which is present)

|                      | A | B | C | D |
|----------------------|---|---|---|---|
| Electro Static Chuck | X | X | X |   |
| Clamp                |   |   |   |   |

Chamber Configuration (Enter an "X" to describe what is present on the system)

| Option Description      | A | B | C | D |
|-------------------------|---|---|---|---|
| Screwdown Lid           |   |   |   |   |
| Clamp Lid               |   |   |   |   |
| Standard RF Match       |   |   |   |   |
| High Efficiency Match   | X | X | X |   |
| Negative Power Supply   | X | X | X |   |
| Positive Power Supply   |   |   |   |   |
| *CM Test Port Diagram D |   |   |   |   |
| 1/2vcr                  |   |   |   |   |
| 1/4vcr                  |   |   |   |   |
| Lamp Driver             |   |   |   |   |
| Slit Valve              |   |   |   |   |

| RGA Port              | Diagram E |   |   |  |  |
|-----------------------|-----------|---|---|--|--|
| Chamber Rough Line:   |           |   |   |  |  |
| Chamber Tray:         |           |   |   |  |  |
| IHC Module:           |           |   |   |  |  |
| Turbo Pump/Controller |           |   |   |  |  |
| Leybold               |           |   |   |  |  |
| Ebara                 |           |   |   |  |  |
| Seiko                 | X         | X | X |  |  |
| Other                 |           |   |   |  |  |
| IEP 254               |           |   |   |  |  |
| IEP 365               |           |   |   |  |  |

stp 301  
Note other type:

|  |  |
|--|--|
|  |  |
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## Remotes

Software: \*Legacy Revision

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### Controller Type:

Phase I Controller:

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|--|

Phase II Controller:

|   |
|---|
| X |
|---|

Short Controller:

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|  |
|--|

Other:

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|  |
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### Umbilicals:

Controller to Mainframe Cable Length:

25ft

|   |
|---|
| X |
|---|

40ft

|  |
|--|
|  |
|--|

60ft

|  |
|--|
|  |
|--|

75ft

|  |
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Cables

D-Sub

|  |
|--|
|  |
|--|

Non D-Sub

|  |
|--|
|  |
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Pump Interface Cable Length:

50ft

|   |
|---|
| X |
|---|

75ft

|  |
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RF to Mainframe Cable Length:

55ft

|   |
|---|
| X |
|---|

75ft

|  |
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### Gen Racks

#### RF Generators:

|                       | Ch A | Ch B | Ch C | Ch D |  |  |
|-----------------------|------|------|------|------|--|--|
| RF Generator Present? | X    | X    | X    |      |  |  |

Secondary Gen Rack: Yes

|  |
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|  |
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Gen Rack Cooling Water:

Manifold

|   |
|---|
| X |
|---|

Direct Connect

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**Generator Rack Cooling Water (select below which is present on the system):**Direct to Genrack ☐Water Manifold w/ Compression Ftgs and Isolation ☐Water Manifold w/ Quick Disconnect Ftgs ☒**RF Genrack Manifold Faciliites Water Connections- select which is present:**1/2" compression tube fitting ☒

red qdc

3/4" compression tube fitting ☐1/2" 90 degree quick disconnect fitting ☐**Heat Exchanger / Chiller Facilities Configurations (Enter an "X" to describe what is present on the system)**

Enter Qty of Heat Exchangers/Chillers that are present?

**Heat Exchangers: CHX Diagram F**

| Heat Exchanger Type           | Qty for Wall         | Qty for Cath         | Qty for Dome         | CHX Y/N              |
|-------------------------------|----------------------|----------------------|----------------------|----------------------|
| Steelhead 0                   | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Steelhead 1 (see right)       | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Neslab HX 150                 | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| AMAT 0                        | <input type="text"/> | <input type="text"/> | <input type="text"/> | N/A                  |
| AMAT 1                        | <input type="text"/> | <input type="text"/> | <input type="text"/> | N/A                  |
| Low Temp BE Aero 50/50        | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Low Temp BE Aero Fluorocarbon | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

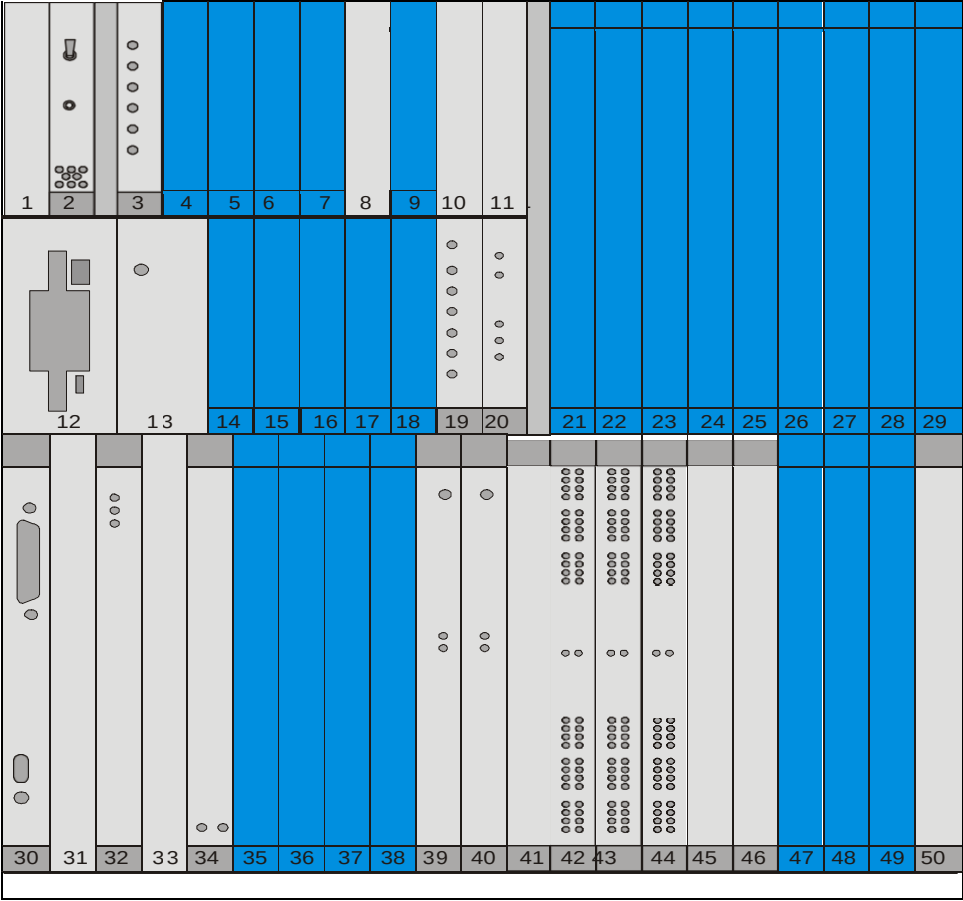
**Rear Frame Valve Connections:**

|     |         | CH A | CH B                 | CH C                 | CH D                 |                                             |
|-----|---------|------|----------------------|----------------------|----------------------|---------------------------------------------|
| SP1 | Wall    | M    | <input type="text"/> | <input type="text"/> | <input type="text"/> | Fill in either manifold # or direct connect |
| SP3 | Cathode | M    | <input type="text"/> | <input type="text"/> | <input type="text"/> | Fill in either manifold # or direct connect |
| SP2 | Dome    | M    | <input type="text"/> | <input type="text"/> | <input type="text"/> | Fill in either manifold # or direct connect |

**Heat Exchanger fluid type:**

|      |       |        |            |
|------|-------|--------|------------|
|      | 50/50 | Galden | 100%Glycol |
| CH A |       |        |            |
| CH B |       |        |            |
| CH C |       |        |            |
| CH D |       |        |            |

Controller Representation



(Enter an "X" in the box to describe boards present in the controller)

| Slot # | Top Rack Bd.          | Present |   | Slot # | Bottom Rack Bd.   | Present |   |
|--------|-----------------------|---------|---|--------|-------------------|---------|---|
|        |                       | Y       | N |        |                   | Y       | N |
| 1      | Serial Isolator       | X       |   | 26     | Chamber C DI/O 2  | X       |   |
| 2      | Lk Det/ System Reset  | X       |   | 27     | Chamber D DI/O 1  |         | X |
| 3      | Lk Det 1&2 or Conv/TC | X       |   | 28     | Chamber D DI/O 2  |         | X |
| 4      | 5 ch TC Gauge bd      | X       |   | 29     | Chamber E DI/O    |         | X |
| 5      | Convectron bd         | X       |   | 30     | Synergy SBC       | X       |   |
| 6      | Convectron bd         | X       |   | 31     | VGA/486 V Contrlr |         | X |
| 7      | Convectron bd         | X       |   | 32     | Video             | X       |   |
| 8      | Convectron bd         |         | X | 33     | APC VME Srplx PCB | X       |   |
| 9      | EWOB Centerfinder     |         | X | 34     | SEI               | X       |   |
| 10     | Blank                 |         |   | 35     | Chamber A AI/O    | X       |   |
| 11     | Blank                 |         |   | 36     | Chamber B AI/O    | X       |   |
| 12     | Floppy Disk Drive     | X       |   | 37     | Chamber C AI/O    | X       |   |
| 13     | Hard Disk Drive       | X       |   | 38     | Chamber D AI/O    |         | X |
| 14     | Chamber A Interface   | X       |   | 39     | Mainframe AI/O 1  | X       |   |
| 15     | Chamber B Interface   | X       |   | 40     | Mainframe AI/O 2  |         | X |
| 16     | Chamber C Interface   | X       |   | 41     | Mainframe DI/O 1  | X       |   |
| 17     | Chamber D Interface   |         | X | 42     | Mainframe DI/O 2  | X       |   |
| 18     | Chamber E Interface   |         | X | 43     | Mainframe DI/O 3  | X       |   |
| 19     | Mainframe Interface   | X       |   | 44     | Mainframe DI/O 4  | X       |   |
| 20     | Loadlock Interface    | X       |   | 45     | Mainframe DI/O 5  | X       |   |
| 21     | Chamber A DI/O 1      | X       |   | 46     | Mainframe DI/O 6  | X       |   |
| 22     | Chamber A DI/O 2      | X       |   | 47     | Stepper 1         | X       |   |
| 23     | Chamber B DI/O 1      | X       |   | 48     | Stepper 2         | X       |   |
| 24     | Chamber B DI/O 2      | X       |   | 49     | Stepper 3         |         | X |
| 25     | Chamber C DI/O 1      | X       |   | 50     | Indexer Stepper   | X       |   |