

Customer: 8780 - PRINCETON PLASMA PHYSICS LAB
Customer P.O.: S-04344-F
Customer Part ID: SE121 - NSCX Vacuum Vessel Prototype

| Item# | Document Description / Material Description / File Name / Heat Lot |
|-------|--|
| 1 | CERTIFICATE OF CONFORMANCE |

F1000000NC4 - FLANGE, CONFLAT, NON-ROTATE, 10.00"

| Item# | Sub | Op | Pc | Document Description / Material Description / File Name / Heat Lot |
|-------|-----|----|----|---|
| 2 | 20 | 10 | 10 | Material Certification: / F1000000NC4 - FLANGE, CONFLAT, NON-ROTATE, 10.00" - |

PVVS PORT EXTENSION TUBE

| Item# | Sub | Op | Pc | Document Description / Material Description / File Name / Heat Lot |
|-------|-----|----|----|--|
| 3 | 25 | 40 | | Inspection Data Checklist: 1 steps |

SE121-001P

| Item# | Sub | Op | Pc | Document Description / Material Description / File Name / Heat Lot |
|-------|-----|----|----|---|
| 4 | 0 | 10 | 10 | Material Certification: TRACE ID: 38561 / INCONEL625_062_GTAW - WELD WIRE/GTAW, .062 DIA - MC074409.TIF / 2653-8-4201 |
| 5 | 0 | 10 | 30 | Material Certification: / INCONEL625_093_GTAW - WELD WIRE/GTAW, .093 DIA - |
| 6 | 1 | 30 | | Test Certification: CWI CERTIFICATE - |
| 7 | 1 | 70 | | Test Certification: CWI CERTIFICATE - |
| 8 | 1 | 71 | | Furnace charts: FURNACE CHART - |
| 9 | 1 | 73 | | Test Certification: VACUUM TEST CERTIFICATE - |
| 10 | 1 | 75 | | Map(s): RADIOGRAPHIC INSPECTION MAP - |
| 11 | 1 | 75 | | Test Certification: RADIOGRAPHIC CERTIFICATE - |
| 12 | 1 | 10 | | Inspection Data Checklist: 2 steps |
| 13 | 1 | 20 | | Inspection Data Checklist: 2 steps |
| 14 | 1 | 40 | | Inspection Data Checklist: 2 steps |
| 15 | 1 | 80 | | Inspection Data Checklist: 2 steps |

SE121-001P-2 PANEL 1 - DIE FORMED PANEL

| Item# | Sub | Op | Pc | Document Description / Material Description / File Name / Heat Lot |
|-------|-----|----|----|--|
| 16 | 14 | 10 | 10 | Material Certification: / INCONEL 625_5 - PLATE,NICKEL ALLOY .375" THK - |
| 17 | 14 | 30 | | Furnace charts: FURNACE CHART - |
| 18 | 14 | 30 | | Certification: H/T CERTIFICATE - |
| 19 | 14 | 70 | | Test Certification: DIMENSIONAL INSPECTION MAP - |
| 20 | 14 | 10 | | Inspection Data Checklist: 1 steps |
| 21 | 14 | 20 | | Inspection Data Checklist: 1 steps |
| 22 | 14 | 35 | | Inspection Data Checklist: 1 steps |
| 23 | 14 | 70 | | Inspection Data Checklist: 2 steps |

SE121-001P-2 PANEL 2 - DIE FORMED PANEL

| Item# | Sub | Op | Pc | Document Description / Material Description / File Name / Heat Lot |
|-------|-----|----|----|--|
|-------|-----|----|----|--|

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|----|----|----|----|--|
| 24 | 15 | 10 | 10 | Material Certification: / INCONEL 625_5 - PLATE,NICKEL ALLOY .375" THK - |
| 25 | 15 | 30 | | Furnace charts: FURNACE CHART - |
| 26 | 15 | 30 | | Certification: H/T CERTIFICATE - |
| 27 | 15 | 70 | | Test Certification: DIMENSIONAL INSPECTION MAP - |
| 28 | 15 | 10 | | Inspection Data Checklist: 1 steps |
| 29 | 15 | 20 | | Inspection Data Checklist: 1 steps |
| 30 | 15 | 35 | | Inspection Data Checklist: 1 steps |

SE121-001P-2 PANEL 3 - DIE FORMED PANEL

| Item# | Sub | Op | Pc | Document Description / Material Description / File Name / Heat Lot |
|-------|-----|----|----|--|
| 31 | 16 | 10 | 10 | Material Certification: / INCONEL 625_5 - PLATE,NICKEL ALLOY .375" THK - |
| 32 | 16 | 30 | | Certification: H/T CERTIFICATE - |
| 33 | 16 | 30 | | Furnace charts: FURNACE CHART - |
| 34 | 16 | 70 | | Test Certification: DIMENSIONAL INSPECTION MAP - |
| 35 | 16 | 10 | | Inspection Data Checklist: 1 steps |
| 36 | 16 | 20 | | Inspection Data Checklist: 1 steps |
| 37 | 16 | 35 | | Inspection Data Checklist: 1 steps |

SE121-001P-2 PANEL 4 - DIE FORMED PANEL

| Item# | Sub | Op | Pc | Document Description / Material Description / File Name / Heat Lot |
|-------|-----|----|----|--|
| 38 | 17 | 10 | 10 | Material Certification: / INCONEL 625_5 - PLATE,NICKEL ALLOY .375" THK - |
| 39 | 17 | 30 | | Certification: H/T CERTIFICATE - |
| 40 | 17 | 30 | | Furnace charts: FURNACE CHART - |
| 41 | 17 | 70 | | Test Certification: DIMENSIONAL INSPECTION MAP - |
| 42 | 17 | 10 | | Inspection Data Checklist: 1 steps |
| 43 | 17 | 20 | | Inspection Data Checklist: 1 steps |
| 44 | 17 | 35 | | Inspection Data Checklist: 1 steps |

SE121-001P-2 PANEL 5 - DIE FORMED PANEL

| Item# | Sub | Op | Pc | Document Description / Material Description / File Name / Heat Lot |
|-------|-----|----|----|--|
| 45 | 18 | 10 | 10 | Material Certification: / INCONEL 625_5 - PLATE,NICKEL ALLOY .375" THK - |
| 46 | 18 | 30 | | Furnace charts: FURNACE CHART - |
| 47 | 18 | 30 | | Certification: H/T CERTIFICATE - |
| 48 | 18 | 70 | | Test Certification: DIMENSIONAL INSPECTION MAP - |
| 49 | 18 | 10 | | Inspection Data Checklist: 1 steps |
| 50 | 18 | 20 | | Inspection Data Checklist: 1 steps |
| 51 | 18 | 35 | | Inspection Data Checklist: 1 steps |

SE121-001P-2 TEST PANEL - DIE FORMED PANEL Qty: 1

| Item# | Sub | Op | Pc | Document Description / Material Description / File Name / Heat Lot |
|-------|-----|----|----|--|
| 52 | 26 | 30 | | Furnace charts: FURNACE CHART - |

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| | | | |
|----|----|----|--|
| 53 | 26 | 30 | Certification: H/T CERTIFICATE - |
| 54 | 26 | 70 | Test Certification: DIMENSIONAL INSPECTION MAP - |
| 55 | 26 | 10 | Inspection Data Checklist: 1 steps |
| 56 | 26 | 20 | Inspection Data Checklist: 1 steps |
| 57 | 26 | 35 | Inspection Data Checklist: 1 steps |

SE121-001P-3 - PORT EXTENSION TUBE

| <u>Item#</u> | <u>Sub</u> | <u>Op</u> | <u>Pc</u> | <u>Document Description / Material Description / File Name / Heat Lot</u> |
|--------------|------------|-----------|-----------|--|
| 58 | 29 | 20 | 10 | Material Certification: / INCONEL 625_660 - SHEET,NICKEL ALLOY .125" THK - |
| 59 | 29 | 30 | | Inspection Data Checklist: 1 steps |
| 60 | 29 | 70 | | Inspection Data Checklist: 2 steps |

SE121-003P - PVVS Qty: 1

| <u>Item#</u> | <u>Sub</u> | <u>Op</u> | <u>Pc</u> | <u>Document Description / Material Description / File Name / Heat Lot</u> |
|--------------|------------|-----------|-----------|---|
| 61 | 0 | 20 | | Test Certification: CLEANLINESS REPORT - |
| 62 | 1 | 90 | | Test Certification: VISUAL INSPECTION CERT - |
| 63 | 1 | 120 | | Certification: INT. SURF. FINISH REPORT - |
| 64 | 1 | 120 | | Certification: MAG. PERMEABILITY REPORT - |
| 65 | 1 | 120 | | Certification: PROFILE VERIFICATION REPORT - |
| 66 | 1 | 100 | | Inspection Data Checklist: 3 steps |
| 67 | 1 | 120 | | Inspection Data Checklist: 5 steps |

SE121-003P-4 - WELD BACKING RING

| <u>Item#</u> | <u>Sub</u> | <u>Op</u> | <u>Pc</u> | <u>Document Description / Material Description / File Name / Heat Lot</u> |
|--------------|------------|-----------|-----------|--|
| 68 | 25 | 10 | 10 | Material Certification: / INCONEL 625_660 - SHEET,NICKEL ALLOY .125" THK - |