

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" - mc094399.pdf / OV104&0V105

FB1000C12S - BOLT AND NUT KIT, 12 PT, SILVER PLATED

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
3	20	10	40	Certificate of Conformance: / FB1000C12S - BOLT AND NUT KIT, 12 PT, SILVER PLATED - MC094404.PDF / C OF C

FG1000CI - GASKET KIT (10/PK), COPPER, FOR 10" CFF

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
4	20	10	20	Certificate of Conformance: / FG1000CI - GASKET KIT (10/PK), COPPER, FOR 10" CFF - Same as Item #3 / C OF C

FG1000VU - GASKET, VITON, FOR 10" CFF

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
5	20	10	30	Certificate of Conformance: / FG1000VU - GASKET, VITON, FOR 10" CFF - Same as Item #3 / C OF C

GC0275S - GASKET CLIP KIT (10/PK), FOR 10" CFF

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
6	20	10	50	Certificate of Conformance: / GC0275S - GASKET CLIP KIT (10/PK), FOR 10" CFF - Same as Item #3 / C OF C

NAMEPLATE

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
7	31	10	10	Material Certification: TRACE ID: 92220 / INCONEL 625_660 - SHEET,NICKEL ALLOY .125" THK - MC093762.TIF / 2650 3 6874

SE121-001P 1-3 - PANEL 1-3 SUB-SET

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
8	43	10		Inspection Data Checklist: 8 steps
9	43	20		Map(s): SE121-001P-1MTM -
10	43	20		Inspection Data Checklist: 2 steps
11	43	30		NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
12	43	30		Inspection Data Checklist: 5 steps
13	43	40		Map(s): SE121-001P-1MTM -
14	43	40		Inspection Data Checklist: 2 steps
15	43	50		NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
16	43	50		Inspection Data Checklist: 5 steps
17	43	60		Map(s): SE121-001P-1MTM -
18	43	60		Inspection Data Checklist: 2 steps

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19	43	70	Inspection Data Checklist: 5 steps
20	43	70	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
21	43	80	Inspection Data Checklist: 2 steps
22	43	80	Map(s): SE121-001P-1MTM -
23	43	90	Inspection Data Checklist: 5 steps
24	43	90	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
25	43	100	Inspection Data Checklist: 2 steps
26	43	100	Map(s): SE121-001P-1MTM -
27	43	110	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
28	43	110	Inspection Data Checklist: 5 steps
29	43	120	Map(s): SE121-001P-1MTM -
30	43	120	Inspection Data Checklist: 2 steps
31	43	130	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
32	43	130	Inspection Data Checklist: 5 steps
33	43	140	Inspection Data Checklist: 2 steps
34	43	140	Map(s): SE121-001P-1MTM -
35	43	150	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
36	43	150	Inspection Data Checklist: 5 steps
37	43	160	Map(s): SE121-001P-1MTM -
38	43	160	Inspection Data Checklist: 2 steps
39	43	180	Test Certification: RADIOGRAPHIC CERTIFICATE -
40	43	180	Map(s): SE121-001P-1MTM -

SE121-001P 2-5 - PANEL 2-5 SUB-SET

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
41	45	10		Inspection Data Checklist: 8 steps
42	45	20		Inspection Data Checklist: 2 steps
43	45	20		Map(s): SE121-001P-1MTM -
44	45	30		NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
45	45	30		Inspection Data Checklist: 5 steps
46	45	40		Inspection Data Checklist: 2 steps
47	45	40		Map(s): SE121-001P-1MTM -
48	45	50		Inspection Data Checklist: 5 steps
49	45	50		NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
50	45	60		Map(s): SE121-001P-1MTM -
51	45	60		Inspection Data Checklist: 2 steps
52	45	70		Inspection Data Checklist: 5 steps
53	45	70		NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
54	45	80		Inspection Data Checklist: 2 steps
55	45	80		Map(s): SE121-001P-1MTM -

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56	45	90	Inspection Data Checklist: 5 steps
57	45	90	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
58	45	100	Map(s): SE121-001P-1MTM -
59	45	100	Inspection Data Checklist: 2 steps
60	45	110	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
61	45	110	Inspection Data Checklist: 5 steps
62	45	120	Inspection Data Checklist: 2 steps
63	45	120	Map(s): SE121-001P-1MTM -
64	45	130	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
65	45	130	Inspection Data Checklist: 5 steps
66	45	140	Inspection Data Checklist: 2 steps
67	45	140	Map(s): SE121-001P-1MTM -
68	45	150	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
69	45	150	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
70	45	150	Inspection Data Checklist: 5 steps
71	45	160	Inspection Data Checklist: 2 steps
72	45	160	Map(s): SE121-001P-1MTM -
73	45	180	Test Certification: RADIOGRAPHIC CERTIFICATE -
74	45	180	Map(s): SE121-001P-1MTM -

SE121-001P 2-5-4 - PANEL 2-5-4 SUB-SET

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
75	41	10		Inspection Data Checklist: 8 steps
76	41	20		Map(s): SE121-001P-1MTM -
77	41	20		Inspection Data Checklist: 2 steps
78	41	30		NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
79	41	30		Inspection Data Checklist: 5 steps
80	41	40		Inspection Data Checklist: 2 steps
81	41	40		Map(s): SE121-001P-1MTM -
82	41	50		NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
83	41	50		Inspection Data Checklist: 5 steps
84	41	60		Inspection Data Checklist: 2 steps
85	41	60		Map(s): SE121-001P-1MTM -
86	41	70		NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
87	41	70		Inspection Data Checklist: 5 steps
88	41	80		Inspection Data Checklist: 2 steps
89	41	80		Map(s): SE121-001P-1MTM -
90	41	90		Inspection Data Checklist: 5 steps
91	41	90		NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
92	41	100		Map(s): SE121-001P-1MTM -

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93	41	100	Inspection Data Checklist: 2 steps
94	41	110	Inspection Data Checklist: 5 steps
95	41	110	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
96	41	120	Inspection Data Checklist: 2 steps
97	41	120	Map(s): SE121-001P-1MTM -
98	41	130	Inspection Data Checklist: 5 steps
99	41	130	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
100	41	140	Map(s): SE121-001P-1MTM -
101	41	140	Inspection Data Checklist: 2 steps
102	41	150	Inspection Data Checklist: 5 steps
103	41	150	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
104	41	150	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
105	41	160	Inspection Data Checklist: 2 steps
106	41	160	Map(s): SE121-001P-1MTM -
107	41	180	Map(s): SE121-001P-1MTM -
108	41	180	Test Certification: RADIOGRAPHIC CERTIFICATE -

SE121-001P - PVVS PRIMARY WELDMENT

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
109	0	10	10	Material Certification: TRACE ID: 38561 / INCONEL625_062_GTAW - WELD WIRE/GTAW, .062 DIA - MC074409.TIF / 2653-8-4201
110	0	10	30	Material Certification: / INCONEL625_093_GTAW - WELD WIRE/GTAW, .093 DIA - MC075552.TIF / CT7519
111	0	10	30	Material Certification: TRACE ID: 41171 / INCONEL625_093_GTAW - WELD WIRE/GTAW, .093 DIA - MC075605.TIF / CT7519
112	0	10	40	Material Certification: / INCONEL625_035_GMAW - WELD WIRE/GMAW, .035 DIA -
113	1	71		Furnace charts: FURNACE CHART -
114	1	73		Test Certification: VACUUM TEST CERTIFICATE -
115	1	75		Test Certification: RADIOGRAPHIC CERTIFICATE -
116	1	75		Map(s): RADIOGRAPHIC INSPECTION MAP -
117	40	10		Inspection Data Checklist: 5 steps
118	40	40		Inspection Data Checklist: 5 steps
119	40	70		Inspection Data Checklist: 8 steps
120	40	80		Inspection Data Checklist: 2 steps
121	40	80		Map(s): SE121-001P-1MTM -
122	40	90		Inspection Data Checklist: 5 steps
123	40	90		NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
124	40	90		NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
125	40	100		Map(s): SE121-001P-1MTM -
126	40	100		Inspection Data Checklist: 2 steps
127	40	110		NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
128	40	110		Inspection Data Checklist: 5 steps

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129	40	120	Map(s): SE121-001P-1MTM -
130	40	120	Inspection Data Checklist: 2 steps
131	40	130	Inspection Data Checklist: 5 steps
132	40	130	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
133	40	130	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
134	40	140	Inspection Data Checklist: 2 steps
135	40	140	Map(s): SE121-001P-1MTM -
136	40	150	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
137	40	150	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
138	40	150	Inspection Data Checklist: 5 steps
139	40	160	Inspection Data Checklist: 2 steps
140	40	160	Map(s): SE121-001P-1MTM -
141	40	170	Inspection Data Checklist: 5 steps
142	40	170	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
143	40	170	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
144	40	180	Inspection Data Checklist: 2 steps
145	40	180	Map(s): SE121-001P-1MTM -
146	40	190	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
147	40	190	Inspection Data Checklist: 5 steps
148	40	190	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
149	40	200	Map(s): SE121-001P-1MTM -
150	40	200	Inspection Data Checklist: 2 steps
151	40	210	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
152	40	210	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
153	40	210	Inspection Data Checklist: 5 steps
154	40	220	Inspection Data Checklist: 2 steps
155	40	220	Map(s): SE121-001P-1MTM -
156	40	230	Inspection Data Checklist: 5 steps
157	40	240	Inspection Data Checklist: 2 steps
158	40	240	Map(s): SE121-001P-1MTM -
159	40	250	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
160	40	250	Inspection Data Checklist: 5 steps
161	40	260	Map(s): SE121-001P-1MTM -
162	40	260	Inspection Data Checklist: 2 steps
163	40	270	Inspection Data Checklist: 5 steps
164	40	270	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
165	40	280	Inspection Data Checklist: 2 steps
166	40	280	Map(s): SE121-001P-1MTM -
167	40	290	Inspection Data Checklist: 5 steps

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168	40	290	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
169	40	300	Map(s): SE121-001P-1MTM -
170	40	300	Inspection Data Checklist: 2 steps
171	40	320	Map(s): SE121-001P-1MTM -
172	40	320	Test Certification: RADIOGRAPHIC CERTIFICATE -
173	40	330	Furnace charts: FURNACE CHART -
174	40	350	Test Certification: VACUUM TEST REPORT -

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

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
175	14	10		Inspection Data Checklist: 3 steps
176	14	10	10	Material Certification: / SE121-001P-2 PANEL # 1 - PANEL BLANK .375" THK INCONEL 625 - MC094098.TIF / 2650 3 6877
177	14	30		Furnace charts: FURNACE CHART - mc094645.pdf
178	14	30		Certification: H/T CERTIFICATE - Same as Item #177
179	14	31		Inspection Data Checklist: 1 steps
180	14	35		Inspection Data Checklist: 1 steps
181	14	40		Inspection Data Checklist: 1 steps
182	14	70		Inspection Data Checklist: 3 steps
183	14	70		Test Certification: SE121-001P-10MTM -

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

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
184	15	10		Inspection Data Checklist: 3 steps
185	15	10	10	Material Certification: / SE121-001P-2 PANEL # 2 - PANEL BLANK .375" THK INCONEL 625 - mc094096.tif / 2650 3 6877
186	15	30		Furnace charts: FURNACE CHART - mc095044.pdf
187	15	30		Certification: H/T CERTIFICATE - Same as Item #186
188	15	31		Inspection Data Checklist: 1 steps
189	15	35		Inspection Data Checklist: 1 steps
190	15	40		Inspection Data Checklist: 1 steps
191	15	70		Inspection Data Checklist: 3 steps
192	15	70		Test Certification: SE121-001P-10MTM -

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

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
193	16	10		Inspection Data Checklist: 3 steps
194	16	10	10	Material Certification: / SE121-001P-2 PANEL # 3 - PANEL BLANK .375" THK INCONEL 625 - mc094091.tif / 2650 3 6877
195	16	30		Furnace charts: FURNACE CHART - mc094739.pdf
196	16	30		Certification: H/T CERTIFICATE - Same as Item #195
197	16	31		Inspection Data Checklist: 1 steps
198	16	35		Inspection Data Checklist: 1 steps
199	16	40		Inspection Data Checklist: 1 steps

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200	16	70	Test Certification: SE121-001P-10MTM -
201	16	70	Inspection Data Checklist: 3 steps

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

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
202	17	10		Inspection Data Checklist: 3 steps
203	17	10	10	Material Certification: / SE121-001P-2 PANEL # 4 - PANEL BLANK .375" THK INCONEL 625 - mc094093.tif / 2650 3 6876
204	17	30		Certification: H/T CERTIFICATE - mc094878.pdf
205	17	30		Furnace charts: FURNACE CHART - Same as Item #204
206	17	31		Inspection Data Checklist: 1 steps
207	17	35		Inspection Data Checklist: 1 steps
208	17	40		Inspection Data Checklist: 1 steps
209	17	70		Inspection Data Checklist: 3 steps
210	17	70		Test Certification: SE121-001P-10MTM -

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

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
211	18	10		Inspection Data Checklist: 3 steps
212	18	10	10	Material Certification: / SE121-001P-2 PANEL # 5 - PANEL BLANK .375" THK INCONEL 625 - mc094089.tif / 2650 2 6877
213	18	30		Certification: H/T CERTIFICATE - mc095443.pdf
214	18	30		Furnace charts: FURNACE CHART - Same as Item #213
215	18	31		Inspection Data Checklist: 1 steps
216	18	35		Inspection Data Checklist: 1 steps
217	18	40		Inspection Data Checklist: 1 steps
218	18	70		Test Certification: SE121-001P-10MTM -
219	18	70		Inspection Data Checklist: 3 steps

SE121-001P-3 - PVVS PORT EXTENSION TUBE

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
220	29	10		Inspection Data Checklist: 1 steps
221	29	20	10	Material Certification: / INCONEL 625_660 - SHEET,NICKEL ALLOY .125" THK - mc093762.tif / 2650 3 6874
222	29	30		Inspection Data Checklist: 1 steps
223	29	40		Inspection Data Checklist: 5 steps
224	29	50		Test Certification: CWI CERTIFICATE -
225	29	50		Inspection Data Checklist: 5 steps
226	29	70		Inspection Data Checklist: 3 steps

SE121-003P - NCSX PVVS COMPLETE Qty: 1

Item#	Sub	Op	Pc	Document Description / Material Description / File Name / Heat Lot
227	0	20		Test Certification: CLEANLINESS CERTIFICATION -
228	1	120		Certification: PROFILE CERTIFICATION -

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229	1	120	Map(s): SE121-001P-1MTM -
230	1	120	Inspection Data Checklist: 5 steps
231	1	120	Certification: INT. SURF. FINISH CERT. -
232	1	120	Certification: MAG. PERM. CERTIFICATION -
233	39	10	Inspection Data Checklist: 5 steps
234	39	10	NDT/LPI/FPI/VI: MTM WELD INSPECTION FORM -
235	39	30	Inspection Data Checklist: 5 steps
236	39	40	Certification: INT. SURF. FINISH CERT. -
237	39	40	Certification: PROFILE CERTIFICATION -
238	39	40	Inspection Data Checklist: 5 steps
239	39	40	Map(s): SE121-001P-1MTM -
240	39	40	Certification: MAG. PERM. CERTIFICATION -

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>
241	25	10	10	Material Certification: / INCONEL 625_660 - SHEET,NICKEL ALLOY .125" THK - Same as Item #221 / 2650 3 6874
242	25	20		Inspection Data Checklist: 5 steps
243	25	20		Certification: CWI CERTIFICATE -
244	25	40		Inspection Data Checklist: 2 steps

SE212-003P-3 - PORT EXTENSION Qty: 1

<u>Item#</u>	<u>Sub</u>	<u>Op</u>	<u>Pc</u>	<u>Document Description / Material Description / File Name / Heat Lot</u>
245	19	10		Certification: CWI CERTIFICATION -
246	19	10		Inspection Data Checklist: 5 steps
247	19	20		Inspection Data Checklist: 2 steps