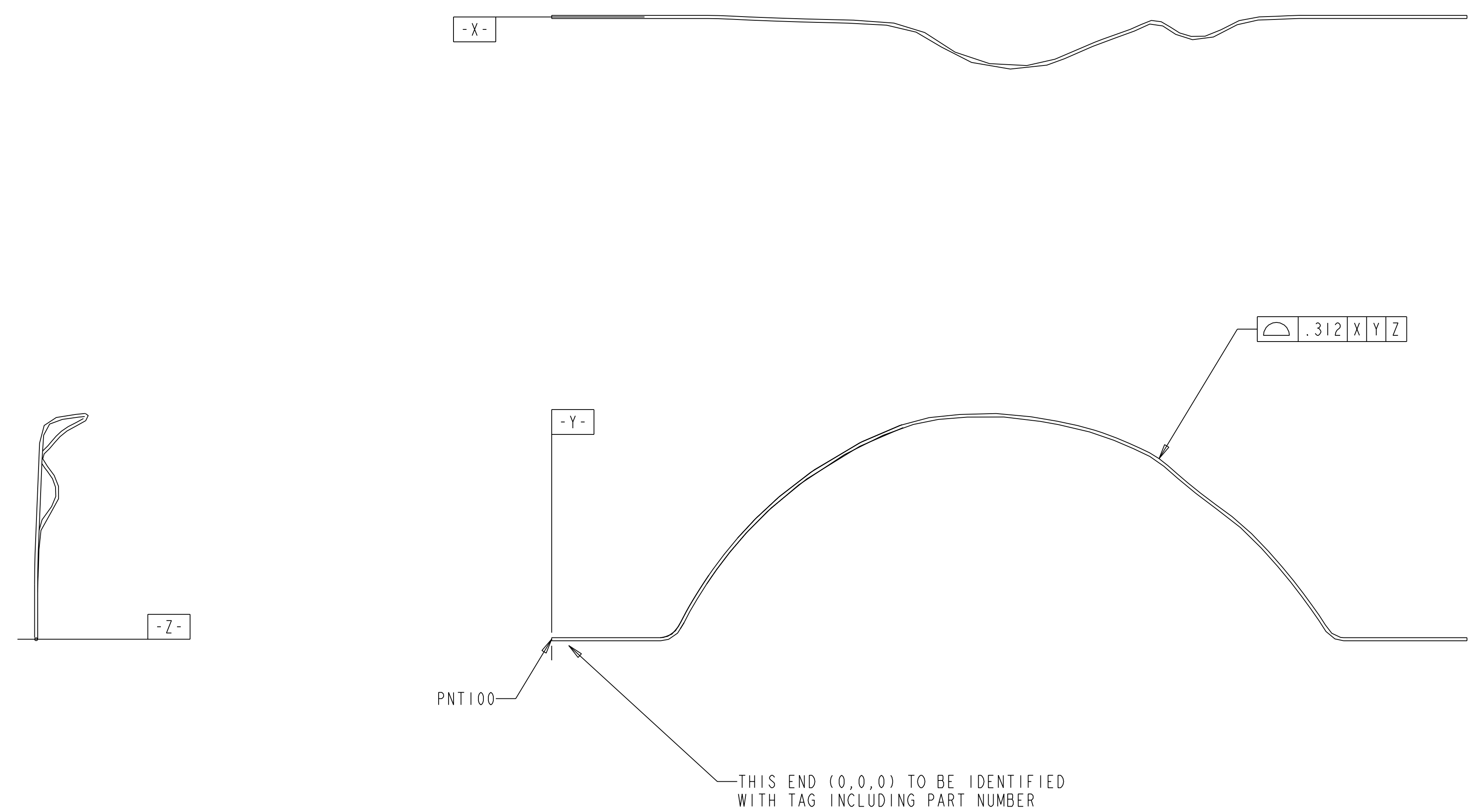


- NOTES
1. INTERPRET DIMENSIONS AND TOLERANCES PER ANSI Y14.5M.
 2. DIMENSIONS ARE IN INCHES.
 3. FABRICATION AND MATERIALS PER NCSX-CSPEC-123-01
 4. PROFILE TOLERANCE OF TUBE SURFACE IS BILATERAL, I.E. 0.156" ANY DIRECTION OFF REFERENCE SURFACE.
 5. ALL TUBE BEND RADII ARE 5/8" TO CENTERLINE OF TUBE.
 6. DATUM POINTS ON CHART ARE THEORETICAL INTERCEPTS OF THE TUBE CENTERLINE. BEND RADII ARE OMITTED. PROFILE TOLERANCE INCLUDES ALLOWANCES FOR THE RADII ERRORS.

Point Name	X	Y	Z
PNT100	0.000	0.000	0.000
PNT101	10.939	-0.000	-0.000
PNT102	11.627	0.111	0.000
PNT103	12.335	0.506	-0.000
PNT104	12.838	1.142	-0.000
PNT105	13.528	2.454	-0.000
PNT106	14.219	3.672	-0.000
PNT107	14.993	4.938	-0.000
PNT108	15.808	6.176	-0.000
PNT109	16.641	7.350	-0.003
PNT110	17.405	8.366	0.038
PNT111	18.115	9.142	0.089
PNT112	18.794	9.623	0.130
PNT113	19.460	9.911	0.168
PNT114	20.119	10.000	0.201
PNT115	20.777	9.994	0.235
PNT116	21.431	9.898	0.262
PNT117	22.081	9.717	0.289
PNT118	22.727	9.458	0.318
PNT119	23.370	9.121	0.345
PNT120	24.011	8.717	0.370
PNT121	24.649	8.247	0.393
PNT122	25.284	7.712	0.419
PNT123	25.916	7.115	0.443
PNT124	26.545	6.458	0.466
PNT125	27.171	5.742	0.491
PNT126	27.794	4.968	0.517
PNT127	28.414	4.138	0.544
PNT128	29.031	3.254	0.572
PNT129	29.645	2.318	0.600
PNT130	30.256	1.342	0.629
PNT131	30.864	0.328	0.658
PNT132	31.469	-0.714	0.688
PNT133	32.071	-1.752	0.718
PNT134	32.671	-2.742	0.748
PNT135	33.269	-3.684	0.778
PNT136	33.865	-4.578	0.808
PNT137	34.459	-5.424	0.838
PNT138	35.051	-6.222	0.868
PNT139	35.641	-6.972	0.898
PNT140	36.229	-7.674	0.928
PNT141	36.815	-8.328	0.958
PNT142	37.400	-8.934	0.988
PNT143	37.983	-9.492	1.018
PNT144	38.564	-10.002	1.048
PNT145	39.143	-10.464	1.078
PNT146	39.720	-10.878	1.108
PNT147	40.295	-11.244	1.138
PNT148	40.868	-11.562	1.168
PNT149	41.439	-11.832	1.198
PNT150	42.008	-12.054	1.228
PNT151	42.575	-12.228	1.258
PNT152	43.140	-12.354	1.288
PNT153	43.703	-12.432	1.318
PNT154	44.264	-12.462	1.348
PNT155	44.823	-12.444	1.378
PNT156	45.380	-12.378	1.408
PNT157	45.935	-12.264	1.438
PNT158	46.488	-12.102	1.468
PNT159	47.039	-11.892	1.498
PNT160	47.588	-11.634	1.528
PNT161	48.135	-11.328	1.558
PNT162	48.680	-10.974	1.588
PNT163	49.223	-10.572	1.618
PNT164	49.764	-10.122	1.648
PNT165	50.303	-9.624	1.678
PNT166	50.840	-9.078	1.708
PNT167	51.375	-8.484	1.738
PNT168	51.908	-7.842	1.768
PNT169	52.439	-7.152	1.798
PNT170	52.968	-6.414	1.828
PNT171	53.495	-5.628	1.858
PNT172	54.020	-4.794	1.888
PNT173	54.543	-3.912	1.918
PNT174	55.064	-2.982	1.948
PNT175	55.583	-2.004	1.978



-1 COOLANT TUBE 2-1
SCALE .125

**RELEASED FOR
FABRICATION / INSTALLATION**
PPPL Drafting:

APPROX TUBE LENGTH = 111.9 IN

AR	CAGE CODE	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	MATERIAL	SPECIFICATION	FIND NO
SE123-070	-1	COOLANT TUBE 2-1	316L SS 5/16"-.032 WALL	SEE NOTE 4	I	

← NEXT ASSEMBLY PARTS LIST

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P THIS DRAWING PRODUCED ON PRO-ENGINEER

REV	DESCRIPTION	BY	DATE	CHK	DEPT	DATE	PE	REG	DATE	ORNL	DOE	DATE
1	PER ECN NO. 5003	MJC	6/24/05	PLG								

SCALE NOTED		DES: P. GORANSON	4-22-05
TOLERANCES UNLESS OTHERWISE SPECIFIED		DRW: G. MGINNIS	4-22-05
FRACTIONS		CHK: G. H. JONES	05-04-05
XX DECIMALS	±.01	SECT:	
XXX DECIMALS	±.005	DEPT:	
ANGLES	±0°15'	PE:	
BREAK SHARP EDGES OR MAX FINISH	.125 UNLESS OTHERWISE SPECIFIED	CR:	
		REO:	
		PPPL DRFT:	
		VERSION NO.	0
		PLANT	ORNL
		BLDG	5700
		FL	3
		SHT	1
		OF	1
		TYPE	S
		CLASS	U
		RELEASE LEVEL	
		Fabrication	
		SE123-071	
		REV	1

SE123-071