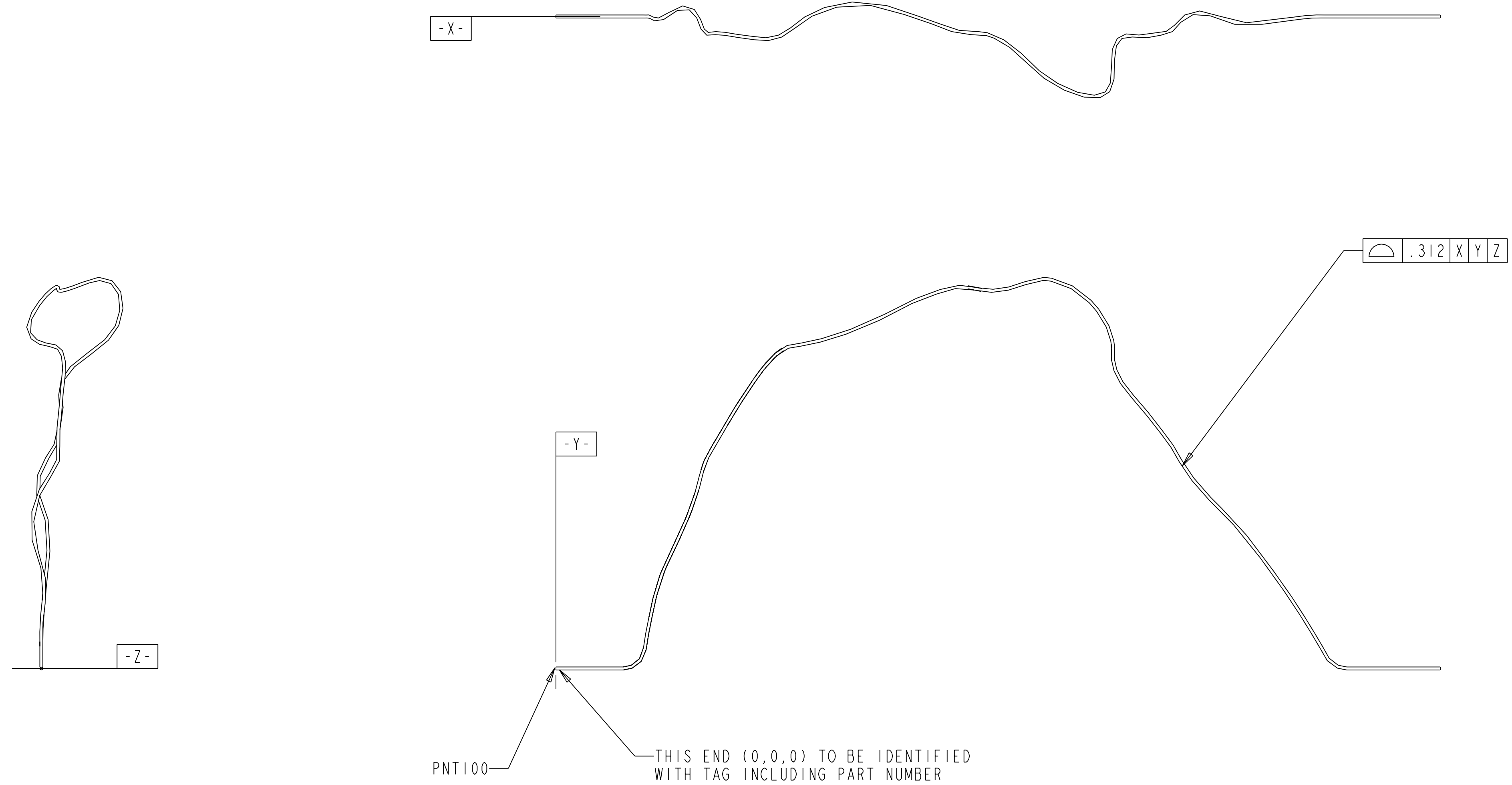


- NOTES
1. INTERPRET DIMENSIONS AND TOLERANCES PER ANSI Y14.5M.
 2. DIMENSIONS ARE IN INCHES.
 3. FABRICATION AND MATERIALS PER NCSX-CSPEC-123-01
 4. PROFILE TOLERANCE OF TUBE SURFACE IS BILATERAL, I.E. 0.156" ANY DIRECTION OFF REFERENCE SURFACE.
 5. ALL TUBE BEND RADII ARE 5/8" TO CENTERLINE OF TUBE.
 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	7.009	-0.000	0.000
PNT102	7.925	0.199	0.000
PNT103	8.782	0.878	0.000
PNT104	9.209	1.875	0.000
PNT105	9.466	3.480	0.000
PNT106	9.699	4.647	0.000
PNT107	9.874	5.594	0.119
PNT108	10.071	6.521	0.212
PNT109	10.332	7.611	0.304
PNT110	10.614	8.611	0.318
PNT111	10.938	9.594	0.247
PNT112	11.336	10.630	0.066
PNT113	11.821	11.688	-0.268
PNT114	12.269	12.563	-0.604
PNT115	12.786	13.628	-0.854
PNT116	13.216	14.569	-0.947
PNT117	13.627	15.522	-0.931
PNT118	13.980	16.398	-0.816
PNT119	14.328	17.346	-0.576
PNT120	14.583	18.120	-0.285
PNT121	14.806	18.872	0.019
PNT122	15.023	19.790	0.689
PNT123	15.170	20.630	1.421
PNT124	15.613	21.693	1.747
PNT125	16.157	22.677	1.749
PNT126	16.773	23.720	1.714
PNT127	17.378	24.767	1.769
PNT128	17.935	25.739	1.878
PNT129	18.512	26.700	1.970
PNT130	19.111	27.650	2.045
PNT131	19.585	28.372	2.098
PNT132	20.209	29.305	2.181
PNT133	20.789	30.160	2.282
PNT134	21.235	30.795	2.353
PNT135	21.818	31.547	2.380
PNT136	22.457	32.246	2.296
PNT137	23.085	32.812	2.118
PNT138	23.822	33.315	1.791
PNT139	24.704	33.617	1.176
PNT140	25.565	33.689	0.456
PNT141	26.580	33.868	-0.177
PNT142	27.657	34.137	-0.661
PNT143	28.528	34.381	-0.957
PNT144	29.655	34.741	-1.216
PNT145	30.626	35.089	-1.336
PNT146	31.513	35.433	-1.370
PNT147	32.546	35.810	-1.320
PNT148	33.564	36.332	-1.180
PNT149	34.694	36.906	-0.902
PNT150	35.636	37.429	-0.577
PNT151	36.591	37.918	-0.239
PNT152	37.651	38.363	0.118
PNT153	38.653	38.768	0.456
PNT154	39.583	39.093	0.786
PNT155	40.509	39.399	1.141
PNT156	41.372	39.634	1.466
PNT157	42.124	39.707	1.649
PNT158	43.064	39.607	1.725
PNT159	43.739	39.451	1.720
PNT160	44.502	39.310	1.775
PNT161	45.255	39.267	1.962
PNT162	46.048	39.319	2.303
PNT163	46.716	39.424	2.689
PNT164	47.413	39.582	3.177
PNT165	48.063	39.775	3.713
PNT166	48.727	40.022	4.350
PNT167	49.367	40.271	5.009
PNT168	50.181	40.464	5.759
PNT169	51.291	40.456	6.582
PNT170	52.236	40.255	7.156
PNT171	53.186	39.888	7.631
PNT172	54.181	39.319	8.019
PNT173	55.180	38.534	8.275
PNT174	56.131	37.533	8.340
PNT175	56.926	36.419	8.153
PNT176	57.552	35.199	7.633
PNT177	57.894	34.080	6.755
PNT178	57.952	33.269	5.745
PNT179	57.938	32.485	4.604
PNT180	58.001	31.750	3.644
PNT181	58.259	30.845	2.755
PNT182	58.620	30.106	2.282
PNT183	59.117	29.342	2.013
PNT184	59.594	28.731	1.949
PNT185	60.307	27.950	2.089
PNT186	61.709	26.198	1.927
PNT187	62.412	25.317	1.839
PNT188	63.171	24.394	1.789
PNT189	71.344	14.217	0.795
PNT190	63.801	23.557	1.599
PNT191	64.442	22.554	1.103
PNT192	65.040	21.466	0.346
PNT193	65.776	20.329	-0.175
PNT194	66.726	19.090	-0.416
PNT195	67.642	18.049	-0.355
PNT196	68.417	17.261	-0.119
PNT197	69.306	16.392	0.235
PNT198	70.338	15.333	0.583
PNT199	71.344	14.217	0.795
PNT200	72.280	13.063	0.799
PNT201	73.112	11.957	0.676
PNT202	74.111	10.611	0.548
PNT203	75.154	9.176	0.432
PNT204	76.130	7.775	0.306
PNT205	76.919	6.596	0.201
PNT206	77.685	5.402	0.097
PNT207	78.272	4.437	-0.000
PNT208	78.842	3.518	-0.000
PNT209	79.393	2.587	-0.000
PNT210	79.817	1.832	-0.000
PNT211	80.160	1.199	0.000
PNT212	80.642	0.613	0.000
PNT213	81.400	0.160	0.000
PNT214	82.269	-0.000	0.000
PNT215	92.000	0.000	0.000



-1 COOLANT TUBE 7-2
SCALE .125

**RELEASED FOR
FABRICATION / INSTALLATION**
PPPL Drafting

APPROX TUBE LENGTH = 143.7 IN

SEI23-095	AR	CAGE CODE	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	MATERIAL	SPECIFICATION	FIND NO
			-1	COOLANT TUBE 7-2	316L SS 5/16"-.032 WALL	SEE NOTE 4	1
				PARTS LIST			

NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY, COMPLETENESS OR USEFULNESS OF THE INFORMATION OR STATEMENTS CONTAINED IN THESE DRAWINGS, OR THAT THE USE OR DISCLOSURE OF ANY INFORMATION, APPARATUS, METHOD OR PROCESS DISCLOSED IN THESE DRAWINGS MAY NOT INFRINGE PRIVATE RIGHTS OF OTHERS. NO LIABILITY IS ASSUMED WITH RESPECT TO THE USE OF, OR FOR DAMAGES RESULTING FROM THE USE OF, ANY INFORMATION, APPARATUS, METHOD OR PROCESS DISCLOSED IN THESE DRAWINGS. DRAWINGS MADE AVAILABLE FOR INFORMATION TO BIDDER ARE NOT TO BE USED FOR OTHER PURPOSES, AND ARE TO BE RETURNED UPON REQUEST OF THE FORWARDING CONTRACTOR.

P THIS DRAWING PRODUCED ON PRO-ENGINEER

REV	DESCRIPTION	BY	DATE	CHK	DEPT	DATE	PE	REQ	DATE	ORNL	DOE	DATE
1	PER ECN NO. 5003	MJC	8/24/08	PLG								

SCALE	NOTED	DES	DATE
TOLERANCES UNLESS OTHERWISE SPECIFIED		P GORANSON	4-22-05
FRACTIONS		G MCGINNIS	4-22-05
XX DECIMALS ±.01		G.H. JONES	05-04-05
XXX DECIMALS ±.005			
ANGLES ±0°15'			
BREAK SHARP EDGES OR MAX FINISH .125 UNLESS OTHERWISE SPECIFIED			

ORNL	BLDG	FL	SHT	OF	TYPE	CLASS
5700	3	1	1	1	S	U

VERSION NO.	PLANT	BLDG	FL	SHT	OF	TYPE	CLASS
0	ORNL	5700	3	1	1	S	U

RELEASE LEVEL	SEI23-097	REV
Fabrication		1

SEI23-097