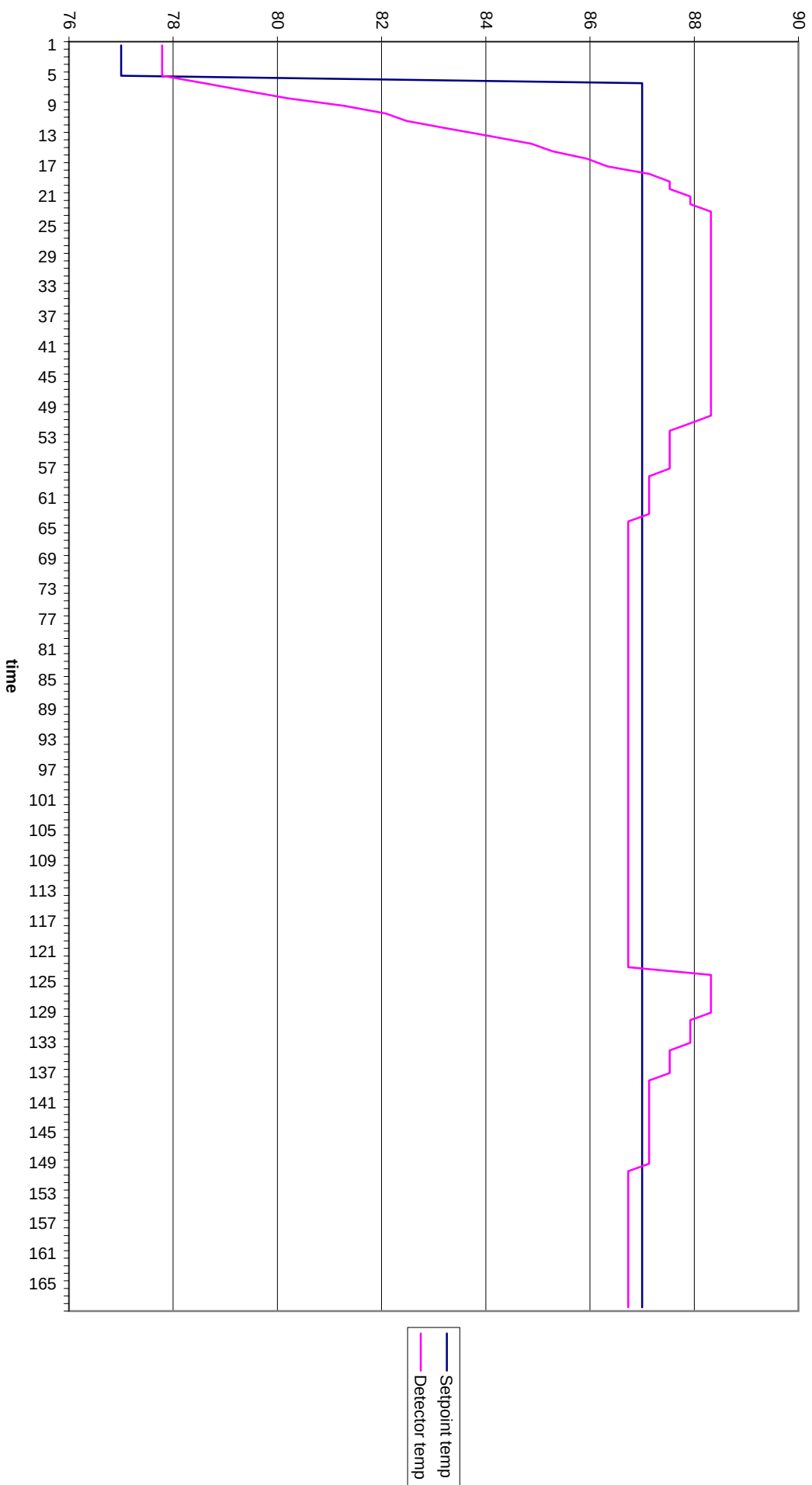
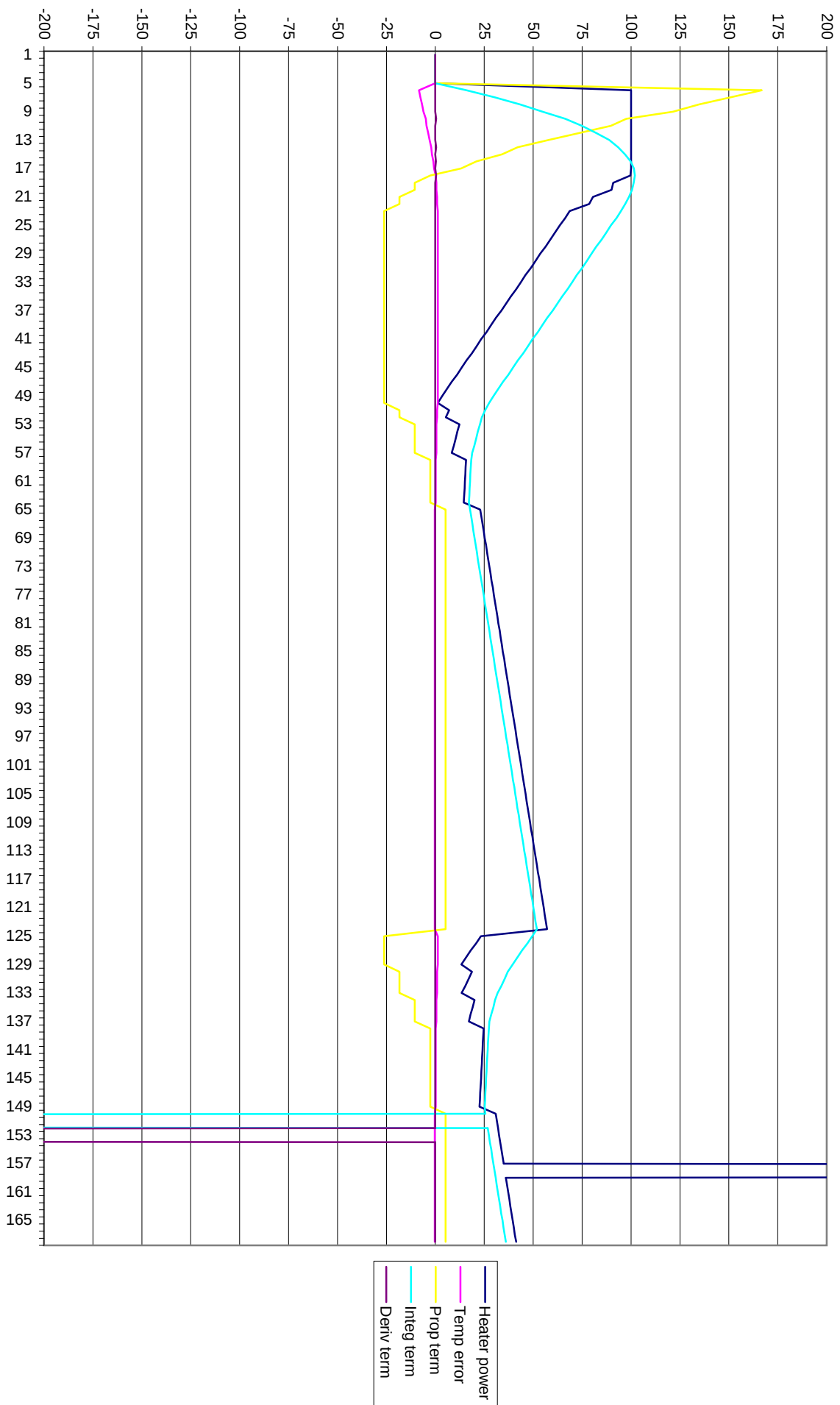


servo response





Wednesday November 17 12:14:21 GMT 1999

separt	del temp	hr	power	error term	Integ term	Deriv Term	Separt	del temp	Heater	error term	Frq term	Integ term	Deriv term
012FDB	000000	000000	000000	000000	000000	000000	77	77.787	0	0	0	0	0
012FDB	000000	000000	000000	000000	000000	000000	77	77.787	0	0	0	0	0
012FDB	000000	000000	000000	000000	000000	000000	77	77.787	0	0	0	0	0
012FDB	000000	000000	000000	000000	000000	000000	77	77.787	0	0	0	0	0
013303	000CCC	FFDF2B	001557	0020AC	000000	000000	87	76.595	100	-8.405	166.7582	15.99512	0
013629	000CCC	FE251	00134B	003E4	000000	000000	87	79.401	100	-7.599	150.7631	30.40293	0
01394F	000CCC	FE577	00113F	000E98	000000	000000	87	80.207	100	-6.793	134.7868	43.22344	0
01307F	000CCC	FE815	000F9C	00702	000000	000000	87	81.279	100	-6.123	121.4896	54.7619	0
040A1	000CCC	FFEC93	000C7D	00087D	00000C	000000	87	82.081	100	-4.919	97.5852	66.33089	0.3663
04232	000CCC	FFESA	000B79	000997	000000	000000	87	82.482	100	-4.518	89.6501	74.93985	0
014552	000CCC	FFFA	000971	000A81	000000	000000	87	83.282	100	-3.718	77.779	82.08181	0
014552	000CCC	FFFA	000971	000A81	000000	000000	87	83.282	100	-3.718	77.779	82.08181	0
0148FE	000CCC	FF7B7	000B63	000B8E	00000C	000000	87	84.879	100	-2.121	42.09402	93.46764	0.3663
014D1E	000CCC	FFFA6	00095F	000C08	000000	000000	87	86.278	100	-1.722	34.15751	96.9475	0
014FB5	000CCC	FFBDD	002B0	000CC5	000008	000000	87	85.941	100	-1.059	21.00122	99.78532	0.2442
015143	000CCC	FFFD8	0001AE	000CFB	000000	000000	87	86.339	100	-0.661	13.12576	101.4347	0
01545D	000CCC	000B5	FFFAA	000D0D	00000C	000000	87	87.133	99.72527	0.133	-2.62515	101.9841	0.3663
0155EA	000B8A	000212	FFFA8	000CFA	000000	000000	87	87.53	90.90354	0.53	-10.5006	101.4042	0
015716	000A50	00003E	FFFA8	000CFA	000000	000000	87	87.53	89.98779	0.56	-10.5006	101.4042	0
015716	000A50	00003E	FFFA8	000CFA	000000	000000	87	87.53	89.98779	0.56	-10.5006	101.4042	0
015802	0008CA	00052A	FFFA5	000C25	000000	000000	87	88.322	68.6832	1.322	-26.221	84.90232	0
015902	00087C	00052A	FFFA5	000B07	000000	000000	87	88.322	66.30037	1.322	-26.221	92.52137	0
015902	000821	00052A	FFFA5	000B7C	000000	000000	87	88.322	63.52259	1.322	-26.221	89.74359	0
015902	0007D3	00052A	FFFA5	000B2E	000000	000000	87	88.322	61.14164	1.322	-26.221	87.36264	0
015902	000795	00052A	FFFA5	000AE0	000000	000000	87	88.322	58.76068	1.322	-26.221	84.98168	0
015902	000737	00052A	FFFA5	000A95	000000	000000	87	88.322	56.37773	1.322	-26.221	82.20391	0
015902	0004D0	00052A	FFFA5	000A37	000000	000000	87	88.322	53.60195	1.322	-26.221	79.82295	0
015902	000450	00052A	FFFA5	000A19	000000	000000	87	88.322	51.22181	1.322	-26.221	77.442	0
015902	00064E	00052A	FFFA5	00098B	000000	000000	87	88.322	48.84065	1.322	-26.221	75.06105	0
015902	0005E5	00052A	FFFA5	00094D	000000	000000	87	88.322	46.06227	1.322	-26.221	72.28327	0
015902	000597	00052A	FFFA5	0008F2	000000	000000	87	88.322	43.68132	1.322	-26.221	69.90232	0
015902	000549	00052A	FFFA5	0008A4	000000	000000	87	88.322	41.30037	1.322	-26.221	67.52137	0
015902	0004EE	00052A	FFFA5	000849	000000	000000	87	88.322	38.52259	1.322	-26.221	64.74359	0
015902	0004A0	00052A	FFFA5	0007FB	000000	000000	87	88.322	36.14164	1.322	-26.221	62.36264	0
015902	000452	00052A	FFFA5	0007AD	000000	000000	87	88.322	33.76068	1.322	-26.221	59.98168	0
015902	0003F7	00052A	FFFA5	000752	000000	000000	87	88.322	30.86591	1.322	-26.221	57.20391	0
015902	000359	00052A	FFFA5	0006F8	000000	000000	87	88.322	28.48325	1.322	-26.221	54.82295	0
015902	000300	00052A	FFFA5	0006B6	000000	000000	87	88.322	26.10231	1.322	-26.221	52.442	0
015902	0002B2	00052A	FFFA5	00060D	000000	000000	87	88.322	21.06227	1.322	-26.221	47.28327	0
015902	000264	00052A	FFFA5	0005BF	000000	000000	87	88.322	18.68132	1.322	-26.221	44.90232	0
015902	000209	00052A	FFFA5	000564	000000	000000	87	88.322	15.90354	1.322	-26.221	42.12454	0
015902	0001BB	00052A	FFFA5	000516	000000	000000	87	88.322	13.52259	1.322	-26.221	39.74359	0
015902	00016D	00052A	FFFA5	0004C8	000000	000000	87	88.322	11.14164	1.322	-26.221	37.36264	0
015902	000112	00052A	FFFA5	00048D	000000	000000	87	88.322	8.38568	1.322	-26.221	34.98486	0
015902	000079	00052A	FFFA5	00043A	000000	000000	87	88.322	5.60195	1.322	-26.221	32.60391	0
015902	000076	00052A	FFFA5	000400	000000	000000	87	88.322	3.01854	1.322	-26.221	29.82295	0
015776	0000E6	00039E	FFDA6	000340	000000	000000	87	87.956	7.020757	0.926	-18.3761	25.39683	0
0155EA	0000B0	00039E	FFDA6	00030A	000000	000000	87	87.53	5.372405	0.926	-18.3761	23.74847	0
0155EA	000194	000212	FFFA8	0002EC	000000	000000	87	87.53	12.33211	0.53	-10.5006	22.83272	0
0155EA	000171	000212	FFFA8	0002C9	000000	000000	87	87.53	11.26374	0.53	-10.5006	21.76435	0
0155EA	000153	000212	FFFA8	0002A8	000000	000000	87	87.53	10.34799	0.53	-10.5006	20.8486	0
0155EA	000135	000212	FFFA8	00028D	000000	000000	87	87.53	9.432234	0.53	-10.5006	19.93294	0
0155EA	000118	000212	FFFA8	00026D	000000	000000	87	87.53	8.51648	0.53	-10.5006	19.01723	0
01545D	000202	000085	FFFAA	000258	000000	000000	87	87.133	15.68987	0.133	-2.62515	18.31902	0
01545D	0001FC	000085	FFFAA	000252	000000	000000	87	87.133	15.50672	0.133	-2.62515	18.13187	0
01545D	0001F5	000085	FFFAA	00024B	000000	000000	87	87.133	15.29304	0.133	-2.62515	17.91819	0
01545D	0001EF	000085	FFFAA	000245	000000	000000	87	87.133	15.10989	0.133	-2.62515	17.73504	0
01545D	0001E9	000085	FFFAA	00023F	000000	000000	87	87.133	14.92674	0.133	-2.62515	17.55189	0
01520D	0001DC	000085	FFFAA	000232	000000	000000	87	87.133	14.71306	0.133	-2.62515	17.33822	0
01520D	0002F0	FFFE8	000AC	000244	000000	000000	87	86.736	22.85482	-0.264	5.250305	17.70452	0
01520D	0002E9	FFFE8	000AC	000238	000000	000000	87	86.736	22.68044	-0.264	5.250305	17.51859	0
01520D	000317	FFFE8	000AC	000232	000000	000000	87	86.736	21.69475	-0.264	5.250305	18.8949	0
01520D	000329	FFFE8	000AC	00027D	000000	000000	87	86.736	21.69475	-0.264	5.250305	19.44444	0
01520D	000338	FFFE8	000AC	00028F	000000	000000	87	86.736	25.2442	-0.264	5.250305	19.99389	0
01520D	000350	FFFE8	000AC	0002A4	000000	000000	87	86.736	25.88523	-0.264	5.250305	20.63492	0
01520D	000362	FFFE8	000AC	0002B6	000000	000000	87	86.736	26.43468	-0.264	5.250305	21.18437	0
01520D	000374	FFFE8	000AC	0002C8	000000	000000	87	86.736	26.98413	-0.264	5.250305	21.73382	0
01520D	000389	FFFE8	000AC	0002D0	000000	000000	87	86.736	27.62515	-0.264	5.250305	22.37485	0
01520D	000398	FFFE8	000AC	0002EF	000000	000000	87	86.736	28.1146	-0.264	5.250305	22.93443	0
01520D	000401	FFFE8	000AC	0002F0	000000	000000	87	86.736	28.60413	-0.264	5.250305	23.49401	0
01520D	00041F	FFFE8	000AC	000316	000000	000000	87	86.736	29.36568	-0.264	5.250305	24.11477	0
01520D	0003D4	FFFE8	000AC	000328	000000	000000	87	86.736	29.91463	-0.264	5.250305	24.66422	0
01520D	0003E6	FFFE8	000AC	00033A	000000	000000	87	86.736	30.46398	-0.264	5.250305	25.21368	0
01520D	0003FB	FFFE8	000AC	00034F	000000	000000	87	86.736	31.10501	-0.264	5.250305	25.8547	0
01520D	00040D	FFFE8	000AC	000361	000000	000000	87	86.736	31.65446	-0.264	5.250305	26.40415	0
01520D	00041F	FFFE8	000AC	000373	000000	000000	87	86.736	32.20391	-0.264	5.250305	26.9536	0
01520D	000434	FFFE8	000AC	000388	000000	000000	87	86.736	32.84493	-0.264	5.250305	27.50463	0
01520D	000446	FFFE8	000AC	00039A	000000	000000	87	86.736	33.39438	-0.264	5.250305	28.14408	0

TX: 000303 52444D 40003A

P Const

I Const

TX: 000303 52444D 40003B

D Const

TX: 000303 52444D 40003C

TX: 000302 03D70A

Time constant

TX: 000303 52444D 400039

TX: 030002 000FA0

4 secs

0.65

0.01

0.03

015200	000458	FFFE8	000AC	003AC	00000	86,736	33,94383	-0,264	5,250305	28,69953	0	
015200	00046A	FFFE8	000AC	003C1	00000	87	86,736	34,49228	-0,264	5,250305	29,33455	
015200	00047F	FFFE8	000AC	003D3	00000	87	86,736	35,13431	-0,264	5,250305	29,894	
015200	000481	FFFE8	000AC	003E5	00000	87	86,736	35,68576	-0,264	5,250305	30,43346	
015200	000483	FFFE8	000AC	003F7	00000	87	86,736	36,23211	-0,264	5,250305	30,98591	
015200	000485	FFFE8	000AC	00409	00000	87	86,736	36,77846	-0,264	5,250305	31,53836	
015200	00048A	FFFE8	000AC	0041E	00000	87	86,736	37,32489	-0,264	5,250305	32,11738	
015200	0004DC	FFFE8	000AC	00430	00000	87	86,736	37,97314	-0,264	5,250305	32,72835	
015200	0004F1	FFFE8	000AC	00445	00000	87	86,736	38,61416	-0,264	5,250305	33,36386	
015200	000503	FFFE8	000AC	00457	00000	87	86,736	39,16361	-0,264	5,250305	33,91331	
015200	000515	FFFE8	000AC	00469	00000	87	86,736	39,71306	-0,264	5,250305	34,46276	
015200	00052A	FFFE8	000AC	0047E	00000	87	86,736	40,26250	-0,264	5,250305	35,10379	
015200	00053C	FFFE8	000AC	00490	00000	87	86,736	40,90354	-0,264	5,250305	35,65324	
015200	00054E	FFFE8	000AC	004A2	00000	87	86,736	41,45299	-0,264	5,250305	36,20269	
015200	000558	FFFE8	000AC	004B4	00000	87	86,736	42,00244	-0,264	5,250305	36,75214	
015200	000575	FFFE8	000AC	004C9	00000	87	86,736	42,64347	-0,264	5,250305	37,30161	
015200	000587	FFFE8	000AC	004DB	00000	87	86,736	43,19292	-0,264	5,250305	37,84961	
015200	00059A	FFFE8	000AC	004FH	00000	87	86,736	43,83394	-0,264	5,250305	38,58364	
015200	0005AE	FFFE8	000AC	00502	00000	87	86,736	44,38339	-0,264	5,250305	39,13309	
015200	0005C0	FFFE8	000AC	00514	00000	87	86,736	44,93284	-0,264	5,250305	39,68254	
015200	0005D2	FFFE8	000AC	00529	00000	87	86,736	45,4823	-0,264	5,250305	40,23257	
015200	0005E7	FFFE8	000AC	0053B	00000	87	86,736	46,12332	-0,264	5,250305	40,87302	
015200	0005F9	FFFE8	000AC	0054D	00000	87	86,736	46,77277	-0,264	5,250305	41,52247	
015200	000609	FFFE8	000AC	00560	00000	87	86,736	47,42222	-0,264	5,250305	42,17192	
015200	000620	FFFE8	000AC	00574	00000	87	86,736	47,96525	-0,264	5,250305	42,72134	
015200	000632	FFFE8	000AC	00586	00000	87	86,736	48,51427	-0,264	5,250305	43,26939	
015200	000644	FFFE8	000AC	00598	00000	87	86,736	49,06215	-0,264	5,250305	43,71184	
015200	000659	FFFE8	000AC	005AD	00000	87	86,736	49,60317	-0,264	5,250305	44,25287	
015200	000668	FFFE8	000AC	005BF	00000	87	86,736	50,15263	-0,264	5,250305	44,80032	
015200	00067D	FFFE8	000AC	005D1	00000	87	86,736	50,70208	-0,264	5,250305	45,34577	
015200	000692	FFFE8	000AC	005E6	00000	87	86,736	51,34311	-0,264	5,250305	45,8928	
015200	0006A4	FFFE8	000AC	005F8	00000	87	86,736	51,98415	-0,264	5,250305	46,44035	
015200	0006B8	FFFE8	000AC	0060A	00000	87	86,736	52,62442	-0,264	5,250305	46,98845	
015200	0006C3B	FFFE8	000AC	0061F	00000	87	86,736	53,26503	-0,264	5,250305	47,53652	
015200	0006D0	FFFE8	000AC	00631	00000	87	86,736	53,93248	-0,264	5,250305	48,08217	
015200	0006EF	FFFE8	000AC	00643	00000	87	86,736	54,18193	-0,264	5,250305	48,93162	
015200	000704	FFFE8	000AC	00658	00000	87	86,736	54,62295	-0,264	5,250305	49,57265	
015200	000716	FFFE8	000AC	0066A	00000	87	86,736	55,37241	-0,264	5,250305	50,1221	
015200	000728	FFFE8	000AC	0067C	00000	87	86,736	55,92186	-0,264	5,250305	50,67155	
015200	00073A	FFFE8	000AC	0068E	00000	87	86,736	56,47131	-0,264	5,250305	51,221	
015200	000745	FFFE8	000AC	006A3	00000	87	86,736	57,02076	-0,264	5,250305	51,77053	
015902	0007FA	0052A	FFFCAC	00697	00000	87	88,322	23,78607	1,322	-26,221	49,48107	
015902	0007C9	FFFCAC	00697	00000	87	88,322	20,87912	1,322	-26,221	47,10012	0	
015902	000251	0052A	FFFCAS	005AC	00000	87	88,322	18,10134	1,322	-26,221	44,32234	0
015902	000203	0052A	FFFCAS	0055E	00000	87	88,322	15,72039	1,322	-26,221	41,94139	0
015902	0001B5	0052A	FFFCAS	00510	00000	87	88,322	13,33944	1,322	-26,221	39,56044	0
015776	000263	0039E	FFFDAB	004BD	00000	87	87,926	18,65079	0,926	-18,3761	37,02686	0
015776	00022D	0039E	FFFDAB	00487	00000	87	87,926	17,00244	0,926	-18,3761	35,37851	0
015776	0001F7	0039E	FFFDAB	00451	00000	87	87,926	15,35468	0,926	-18,3761	33,73016	0
015776	000147	0039E	FFFDAB	00415	00000	87	87,926	13,70633	0,926	-18,3761	32,08181	0
0155EA	000272	000212	FFFEAB	003E8	00000	87	87,53	20,0242	0,53	-10,506	30,52502	0
0155EA	000272	000212	FFFEAB	003CA	00000	87	87,53	19,10867	0,53	-10,506	29,60928	0
0155EA	00024F	000212	FFFEAB	003A7	00000	87	87,53	18,04029	0,53	-10,506	28,5409	0
0155EA	000231	000212	FFFEAB	00389	00000	87	87,53	17,12454	0,53	-10,506	27,62515	0
01545D	000329	00085	FFFFAA	0037F	00000	87	87,133	24,69475	0,133	-2,62515	27,3199	0
01545D	000322	00085	FFFFAA	0037E	00000	87	87,133	24,48107	0,133	-2,62515	27,10623	0
01545D	00031C	00085	FFFFAA	00372	00000	87	87,133	24,29792	0,133	-2,62515	26,92308	0
01545D	000316	00085	FFFFAA	0036C	00000	87	87,133	24,11477	0,133	-2,62515	26,73993	0
01545D	000309	00085	FFFFAA	00365	00000	87	87,133	23,93162	0,133	-2,62515	26,55678	0
01545D	000303	00085	FFFFAA	00359	00000	87	87,133	23,71795	0,133	-2,62515	26,3743	0
01545D	0002FD	00085	FFFFAA	00353	00000	87	87,133	23,5348	0,133	-2,62515	26,15965	0
01545D	0002F6	00085	FFFFAA	0034C	00000	87	87,133	23,35165	0,133	-2,62515	25,9768	0
01545D	0002F0	00085	FFFFAA	00346	00000	87	87,133	23,13797	0,133	-2,62515	25,76313	0
01545D	0002EA	00085	FFFFAA	00340	00000	87	87,133	22,95482	0,133	-2,62515	25,57968	0
01545D	0002E3	00085	FFFFAA	00339	00000	87	87,133	22,77167	0,133	-2,62515	25,39683	0
015200	0003F3	000AC	00347	00000	87	87,133	22,588	0,133	-2,62515	25,18315	0	
015200	0003F2	000AC	00342	00000	87	86,736	30,88011	-0,264	5,250305	25,6105	0	
015200	00041A	FFFE8	000AC	0038E	00000	87	86,736	32,05128	-0,264	5,250305	26,80908	0
015200	00042C	FFFE8	000AC	00390	455252	87	86,736	32,60073	-0,264	5,250305	27,35943	37,3448
015200	00043E	FFFE8	000AC	00392	00000	87	86,736	33,15018	-0,264	5,250305	27,89988	0
015200	000453	FFFE8	000AC	003A7	00000	87	86,736	33,79121	-0,264	5,250305	28,5409	0
015200	000465	FFFE8	000AC	003B9	00000	87	86,736	34,34066	-0,264	5,250305	29,09035	0
015200	000477	FFFE8	000AC	003CB	00000	87	86,736	34,89011	-0,264	5,250305	29,6398	0
015200	455252	FFFE8	000AC	003E0	00000	87	86,736	1,98877	-0,264	5,250305	30,28983	0
015200	00049E	FFFE8	000AC	003F2	00000	87	86,736	36,08659	-0,264	5,250305	30,83028	0
015200	0004A8	FFFE8	000AC	00404	00000	87	86,736	36,63604	-0,264	5,250305	31,38073	0
015200	0004D7	FFFE8	000AC	00415	00000	87	86,736	37,17949	-0,264	5,250305	31,92918	0
015200	0004E9	FFFE8	000AC	0042B	00000	87	86,736	37,82051	-0,264	5,250305	32,57021	0
015200	0004FB	FFFE8	000AC	0043D	00000	87	86,736	38,36996	-0,264	5,250305	33,11966	0
015200	000510	FFFE8	000AC	0044F	00000	87	86,736	38,91941	-0,264	5,250305	33,66911	0
015200	000522	FFFE8	000AC	00476	00000	87	86,736	39,56044	-0,264	5,250305	34,31013	0
015200	000534	FFFE8	000AC	00488	00000	87	86,736	40,10989	-0,264	5,250305	34,85958	0
015200	000549	FFFE8	000AC	0049D	00000	87	86,736	40,65934	-0,264	5,250305	35,40904	0
015200	000549	FFFE8	000AC	0049D	00000	87	86,736	41,30037	-0,264	5,250305	36,05906	0