

Program ces (A Construction Engineering Survey format) (11/26/91)

Tue Dec 19 11:23:58 2006

Site coordinates for beamline: MTEST_r8.ces

NOTES: Coordinates are given for the entrance of the device in DUSAF coordinate system.

Site +x-axis (EAST); site +y-axis (NORTH); Site z-axis (ELEVATION)

Positive bearing is ccw wrt site EAST.

Pitch is the vertical angle about the x-y plane.

line	location	typ_code	distance	x	y	z	brng	pitch	yaw
			[m]	[m]	[m]	[m]	[r]	[r]	[r]
0000	WALL2	MARK	0.00000	30291.69448	32010.81360	227.15903	1.79827	-0.00056	0.00000
0001	~	drift	0.00000	30291.69448	32010.81360	227.15903	1.79827	-0.00056	0.00000
0002	MT3PWC	mwire	2.32934	30291.16918	32013.08294	227.15771	1.79827	-0.00056	0.00000
0003	~	drift	2.45126	30291.14168	32013.20171	227.15765	1.79827	-0.00056	0.00000
0004	MT3CON	wheel	3.00514	30291.01677	32013.74132	227.15733	1.79827	-0.00056	0.00000
0005	~	drift	3.06229	30291.00389	32013.79700	227.15730	1.79827	-0.00056	0.00000
0006	MT3SW	bend	3.62426	30290.87715	32014.34450	227.15698	1.79827	-0.00056	0.00000
0007	~	drift	6.67226	30290.18977	32017.31398	227.15526	1.79827	-0.00056	0.00000
0008	MT3BS	bmstp	7.16279	30290.07915	32017.79186	227.15498	1.79827	-0.00056	0.00000
0009	~	drift	9.96473	30289.44726	32020.52163	227.15340	1.79827	-0.00056	0.00000
0010	MT3Q3	quad	10.42193	30289.34416	32020.96705	227.15314	1.79827	-0.00056	0.00000
0011	~	drift	13.46993	30288.65678	32023.93654	227.15142	1.79827	-0.00056	0.00000
0012	MT3Q4	quad	13.92713	30288.55367	32024.38196	227.15116	1.79827	-0.00056	0.00000
0013	~	drift	16.97514	30287.86629	32027.35144	227.14944	1.79827	-0.00056	0.00000
0014	MT3CN2	wheel	17.43233	30287.76319	32027.79686	227.14918	1.79827	-0.00056	0.00000
0015	MT3W	bend	17.76571	30287.68801	32028.12165	227.14899	1.80152	-0.00056	0.00000
0016	~	drift	20.81371	30286.99098	32031.08888	227.14727	1.80477	-0.00056	0.00000
0017	MT3U1	bend	21.46141	30286.84082	32031.71893	227.14690	1.80477	0.00021	0.00000
0018	~	drift	24.50941	30286.13415	32034.68388	227.14755	1.80477	0.00099	0.00000
0019	MT3U2	bend	31.21501	30284.57949	32041.20677	227.15418	1.80477	0.00177	0.00000
0020	~	drift	34.26301	30283.87283	32044.17171	227.15956	1.80477	0.00254	0.00000
0021	MT4PWC	mwire	35.51269	30283.58310	32045.38734	227.16274	1.80477	0.00254	0.00000
0022	~	drift	35.63461	30283.55483	32045.50594	227.16305	1.80477	0.00254	0.00000
0023	MT4TGT	trim	36.06006	30283.45619	32045.91979	227.16413	1.80477	0.00254	0.00000
0024	~	drift	36.06006	30283.45619	32045.91979	227.16413	1.80477	0.00254	0.00000
0025	MTABS	absbr	37.19326	30283.19347	32047.02211	227.16701	1.80477	0.00254	0.00000
0026	~	drift	39.02206	30282.76947	32048.80107	227.17166	1.80477	0.00254	0.00000
0027	MT4Q1	quad	39.32686	30282.69880	32049.09757	227.17243	1.80477	0.00254	0.00000
0028	~	drift	42.37486	30281.99214	32052.06251	227.18018	1.80477	0.00254	0.00000
0029	MT4W1	bend	42.70661	30281.91523	32052.38522	227.18102	1.80877	0.00254	-0.00002
0030	~	drift	45.75461	30281.19671	32055.34731	227.18877	1.81277	0.00254	-0.00002
0031	MTBCOL	clmtr	52.15541	30279.66296	32061.56161	227.20504	1.81277	0.00254	-0.00002
0032	MTBABS	absbr	52.15541	30279.66296	32061.56161	227.20504	1.81277	0.00254	-0.00002
0033	~	drift	56.15541	30278.70448	32065.44507	227.21521	1.81277	0.00254	-0.00002
0034	MT4Q2	quad	56.24726	30278.68247	32065.53424	227.21544	1.81277	0.00254	-0.00002
0035	~	drift	59.29526	30277.95211	32068.49344	227.22319	1.81277	0.00254	-0.00002
0036	MT4W2	bend	59.93661	30277.79843	32069.11610	227.22482	1.81677	0.00254	-0.00004
0037	~	drift	62.98461	30277.05624	32072.07235	227.23257	1.82077	0.00254	-0.00004
0038	MT4Q3	quad	63.64081	30276.89391	32072.70815	227.23424	1.82077	0.00254	-0.00004

0039	~	drift	66.68881	30276.13990	32075.66140	227.24198	1.82077	0.00254	-0.00004
0040	MT4CV1	Pclmtr	67.17776	30276.01895	32076.13515	227.24323	1.82077	0.00254	-0.00004
0041	~	drift	68.67776	30275.64788	32077.58853	227.24704	1.82077	0.00254	-0.00004
0042	MT4VT	trim	69.28736	30275.49708	32078.17918	227.24859	1.82077	0.00254	-0.00004
0043	~	drift	70.04936	30275.30858	32078.91749	227.25053	1.82077	0.00254	-0.00004
0044	MT4FP	fchmbr	73.92874	30274.34890	32082.67628	227.26039	1.82077	0.00254	-0.00004
0045	~	drift	74.08749	30274.30963	32082.83010	227.26079	1.82077	0.00254	-0.00004
0046	MT4CH1	Pclmtr	74.46531	30274.21617	32083.19618	227.26175	1.82077	0.00254	-0.00004
0047	MT4CYM	marker	75.21531	30274.03063	32083.92286	227.26366	1.82077	0.00254	-0.00004
0048	MT4CH1	Pclmtr	75.21531	30274.03063	32083.92286	227.26366	1.82077	0.00254	-0.00004
0049	~	drift	75.96531	30273.84510	32084.64955	227.26556	1.82077	0.00254	-0.00004
0050	MT4HT	trim	84.34605	30271.77189	32092.76978	227.28686	1.82077	0.00254	-0.00004
0051	~	drift	85.10805	30271.58339	32093.50809	227.28880	1.82077	0.00254	-0.00004
0052	MT4Q4	quad	85.99611	30271.36370	32094.36855	227.29106	1.82077	0.00254	-0.00004
0053	~	drift	89.04411	30270.60969	32097.32180	227.29880	1.82077	0.00254	-0.00004
0054	MT4CH2	Pclmtr	89.41495	30270.51795	32097.68112	227.29975	1.82077	0.00254	-0.00004
0055	~	drift	90.91495	30270.14688	32099.13449	227.30356	1.82077	0.00254	-0.00004
0056	MT4Q5	quad	92.39691	30269.78028	32100.57038	227.30733	1.82077	0.00254	-0.00004
0057	~	drift	95.44491	30269.02627	32103.52364	227.31507	1.82077	0.00254	-0.00004
0058	MT4CV2	Pclmtr	95.81575	30268.93453	32103.88295	227.31602	1.82077	0.00254	-0.00004
0059	~	drift	97.31575	30268.56347	32105.33633	227.31983	1.82077	0.00254	-0.00004
0060	MT4Q6	quad	99.16251	30268.10662	32107.12568	227.32452	1.82077	0.00254	-0.00004
0061	~	drift	102.21051	30267.35261	32110.07893	227.33227	1.82077	0.00254	-0.00004
0062	MT5FP1	cntr	102.58834	30267.25914	32110.44502	227.33323	1.82077	0.00254	-0.00004
0063	~	drift	102.74708	30267.21987	32110.59883	227.33363	1.82077	0.00254	-0.00004
0064	MT5SC	scint	103.58211	30267.01331	32111.40790	227.33576	1.82077	0.00254	-0.00004
0065	~	drift	103.88691	30266.93790	32111.70322	227.33653	1.82077	0.00254	-0.00004
0066	MT5CON	wheel	104.19171	30266.86250	32111.99855	227.33731	1.82077	0.00254	-0.00004
0067	~	drift	104.19171	30266.86250	32111.99855	227.33731	1.82077	0.00254	-0.00004
0068	MT5VT1	trim	104.80131	30266.71170	32112.58920	227.33886	1.82077	0.00254	-0.00004
0069	~	drift	105.56331	30266.52320	32113.32751	227.34079	1.82077	0.00254	-0.00004
0070	MT5E1	bend	106.04631	30266.40372	32113.79550	227.34202	1.81632	0.00254	-0.00001
0071	~	drift	109.09431	30265.66286	32116.75208	227.34977	1.81187	0.00254	-0.00001
0072	MT5E2	bend	109.57731	30265.54755	32117.22111	227.35100	1.80742	0.00254	0.00001
0073	~	drift	112.62531	30264.83304	32120.18417	227.35874	1.80297	0.00254	0.00001
0074	MT5E3	bend	113.10831	30264.72190	32120.65421	227.35997	1.79852	0.00254	0.00003
0075	~	drift	116.15631	30264.03380	32123.62351	227.36772	1.79407	0.00254	0.00003
0076	MT5E4	bend	116.63931	30263.92685	32124.09452	227.36895	1.78962	0.00254	0.00005
0077	~	drift	119.68731	30263.26520	32127.06983	227.37669	1.78516	0.00254	0.00005
0078	MT5E5	bend	120.17031	30263.16246	32127.54178	227.37792	1.78071	0.00254	0.00008
0079	~	drift	123.21831	30262.52732	32130.52286	227.38567	1.77626	0.00254	0.00008
0080	MT5Q1	quad	131.59531	30260.81821	32138.72363	227.40695	1.77626	0.00254	0.00008
0081	~	drift	134.64331	30260.19635	32141.70751	227.41470	1.77626	0.00254	0.00008
0082	MT5Q2	quad	135.25291	30260.07198	32142.30428	227.41625	1.77626	0.00254	0.00008
0083	~	drift	138.30091	30259.45011	32145.28816	227.42399	1.77626	0.00254	0.00008
0084	MT5VT2	trim	139.18356	30259.27003	32146.15224	227.42623	1.77626	0.00254	0.00008
0085	~	drift	139.94556	30259.11457	32146.89821	227.42817	1.77626	0.00254	0.00008
0086	MT5HT2	trim	140.83471	30258.93316	32147.76866	227.43043	1.77626	0.00254	0.00008
0087	~	drift	141.59671	30258.77770	32148.51463	227.43236	1.77626	0.00254	0.00008

0088	MT5FP2	cntr	141.97454	30258.70061	32148.88450	227.43332	1.77626	0.00254	0.00008
0089	~	drift	142.13329	30258.66822	32149.03991	227.43373	1.77626	0.00254	0.00008
0090	MT5CV1	ceren	146.42386	30257.79284	32153.24023	227.44463	1.77626	0.00254	0.00008
0091	~	drift	158.61586	30255.30539	32165.17574	227.47561	1.77626	0.00254	0.00008
0092	MT5CV2	ceren	161.01504	30254.81590	32167.52445	227.48170	1.77626	0.00254	0.00008
0093	~	drift	176.25504	30251.70659	32182.44384	227.52043	1.77626	0.00254	0.00008
0094	MT6FP	cntr	180.10747	30250.92060	32186.21522	227.53021	1.77626	0.00254	0.00008
0095	~	drift	180.26622	30250.88821	32186.37063	227.53062	1.77626	0.00254	0.00008
0096	MT6WC1	mwire	180.57102	30250.82603	32186.66902	227.53139	1.77626	0.00254	0.00008
0097	~	drift	180.57102	30250.82603	32186.66902	227.53139	1.77626	0.00254	0.00008
0098	MT6SC	scint	180.87582	30250.76384	32186.96741	227.53217	1.77626	0.00254	0.00008
0099	~	drift	180.87582	30250.76384	32186.96741	227.53217	1.77626	0.00254	0.00008
0100	MT1374C	marker	192.83842	30248.32319	32198.67835	227.56256	1.77626	0.00254	0.00008
0101	~	drift	192.83842	30248.32319	32198.67835	227.56256	1.77626	0.00254	0.00008
0102	MT1440C	marker	213.06812	30244.19586	32218.48247	227.61396	1.77626	0.00254	0.00008