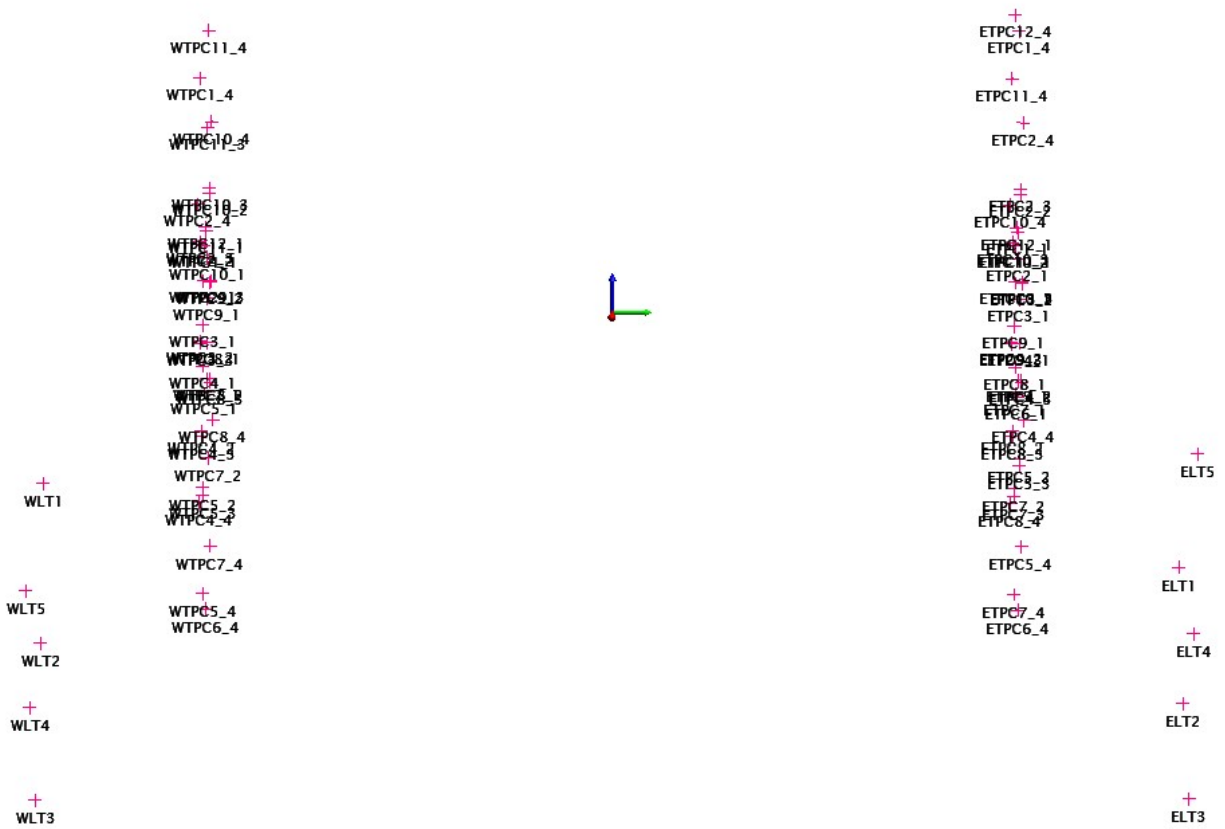


# STAR MAGNET and TPC LOCATIONS



The frame is created in the following manner:

- Origin is 6 clock center;
- +X is inboard;
- +Z is up;
- +Y points downstream.

Point Group USMN::STAR MAGNET			
Point Name	X (in)	Y (in)	Z (in)
ELT1	92.5687	143.4547	-49.2122
ELT2	54.4902	143.4310	-89.5090
ELT3	1.7909	143.3894	-122.2434
ELT4	-54.7693	143.3332	-89.5433
ELT5	-92.2706	143.2939	-50.2390
WLT1	-87.7991	-144.1520	-57.3149
WLT2	-50.4997	-144.1307	-91.7393
WLT3	5.2779	-144.0751	-122.2450
WLT4	51.0026	-144.0375	-91.6971
WLT5	88.3716	-144.0065	-56.3238

Point Group USMN::TPC			
Point Name	X (in)	Y (in)	Z (in)
ETPC10_1	18.4398	100.8403	10.7523
ETPC10_2	40.4350	100.8456	23.4549
ETPC10_3	42.2336	100.8450	24.5319
ETPC10_4	64.8313	100.8409	37.5806
ETPC11_1	10.5768	100.8344	18.5992
ETPC11_4	37.4041	100.7925	65.0025
ETPC12_1	-0.1330	100.8262	21.4804
ETPC12_4	-0.0973	100.7690	75.1252
ETPC1_1	-10.8917	100.8206	18.5880
ETPC1_4	-37.6565	100.7504	64.9821
ETPC2_1	-18.7198	100.8174	10.6916
ETPC2_2	-40.6054	100.7965	23.3786
ETPC2_3	-42.5284	100.7978	24.4150
ETPC2_4	-65.1272	100.7695	37.4927
ETPC3_1	-21.5706	100.8174	-0.0208
ETPC3_2	-46.8696	100.7945	-0.0294
ETPC3_3	-49.0738	100.7974	-0.0264
ETPC4_1	-18.7007	100.8221	-10.7224
ETPC4_2	-40.6147	100.8044	-23.4016
ETPC4_3	-42.4987	100.8029	-24.4892
ETPC4_4	-65.1067	100.7841	-37.5339
ETPC5_1	-10.8361	100.8252	-18.5703
ETPC5_2	-23.4901	100.8144	-40.4826
ETPC5_3	-24.5221	100.7897	-42.3803
ETPC5_4	-37.6103	100.7963	-64.9876
ETPC6_1	-0.1192	100.8315	-21.4395
ETPC6_4	-0.0540	100.8192	-74.9560
ETPC7_1	10.6534	100.8083	-18.5603
ETPC7_2	23.3254	100.8174	-40.4785
ETPC7_3	24.3902	100.8169	-42.3752
ETPC7_4	37.4480	100.8437	-64.9582
ETPC8_1	18.4567	100.8405	-10.7216
ETPC8_2	40.3843	100.8503	-23.3782
ETPC8_3	42.2804	100.8500	-24.4384
ETPC8_4	64.8430	100.9096	-37.4813
ETPC9_1	21.3425	100.8388	0.0277
ETPC9_2	46.6670	100.8499	0.0479
ETPC9_3	48.8177	100.8520	0.0127
WTPC10_1	-18.6160	-101.4559	10.6776
WTPC10_2	-40.5433	-101.4648	23.3373
WTPC10_3	-42.4494	-101.4650	24.4323
WTPC10_4	-65.0359	-101.4627	37.4637
WTPC11_1	-10.7721	-101.4524	18.5123
WTPC11_3	-24.5833	-101.4536	42.4013
WTPC11_4	-37.5494	-101.4434	64.9213
WTPC12_1	-0.0256	-101.4441	21.4057
WTPC1_1	10.6903	-101.4315	18.5203
WTPC1_4	37.5384	-101.4437	64.9377
WTPC2_1	18.5407	-101.4271	10.6799
WTPC2_2	40.5510	-101.4138	23.4138
WTPC2_3	42.3816	-101.4097	24.4314
WTPC2_4	64.9737	-101.4074	37.4160
WTPC3_1	21.4504	-101.4566	-0.0206
WTPC3_2	46.7137	-101.3987	-0.0235
WTPC3_3	48.9402	-101.3979	-0.0581
WTPC4_1	18.5814	-101.4477	-10.7729
WTPC4_2	40.5030	-101.3982	-23.4386
WTPC4_3	42.3550	-101.3962	-24.5440
WTPC4_4	64.8929	-101.3871	-37.5151

Point Group USMN::TPC			
Point Name	X (in)	Y (in)	Z (in)
WTPC5_1	10.6981	-101.4519	-18.6694
WTPC5_2	23.3774	-101.4292	-40.5372
WTPC5_3	24.5038	-101.4252	-42.4190
WTPC5_4	37.4720	-101.3786	-65.0070
WTPC6_4	-0.0102	-101.4013	-74.9399
WTPC7_1	-10.7372	-101.4758	-18.5908
WTPC7_2	-23.3909	-101.4341	-40.5610
WTPC7_4	-37.5490	-101.4307	-65.0054
WTPC8_1	-18.6165	-101.4436	-10.7934
WTPC8_2	-40.5296	-101.4487	-23.4262
WTPC8_3	-42.4148	-101.4481	-24.5539
WTPC8_4	-64.9455	-101.4562	-37.5597
WTPC9_1	-21.4666	-101.4521	-0.0531
WTPC9_2	-46.7867	-101.4581	-0.0469
WTPC9_3	-48.9821	-101.4609	-0.0444