

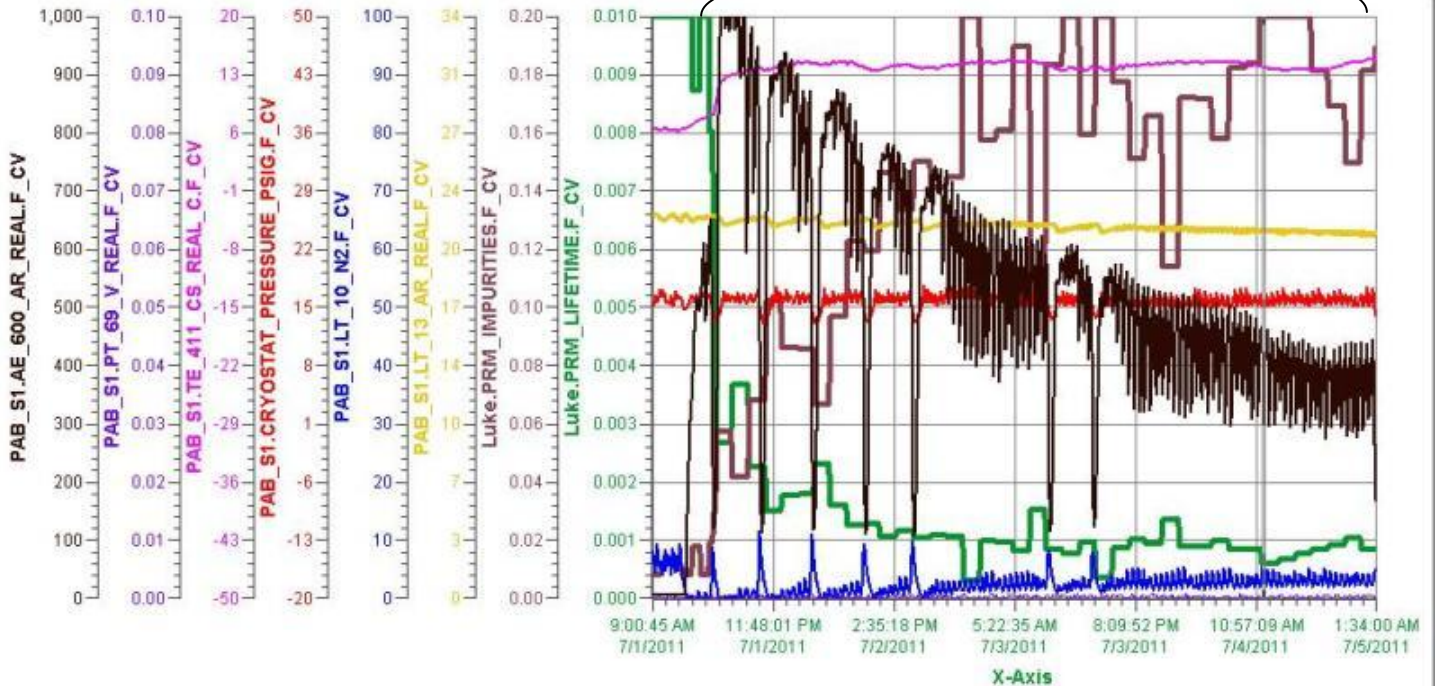
PAB Materials Test System

Date of Receipt	07/28/11 , logbook entry # 1836
Sample Name/Description	Pultruded fiberglass plate from LibertyPultrusion. (may serve as the support for LBNE TPC field cage)
Sample	
Composition:	pultruded fiberglass (type PolyGlas M)
Picture Location:	data base
Weight:	180 g
Dimensions/Area:	10 x23 cm, thickness 3 mm
Source:	Bo Yu
Preparation:	dry cleaned
Submerging in LAr or LH2	no
Time in the airlock(hrs)	
Purge:	24 h purged from the bottle and 2 h from Luke
Vacuum:	
Room Temperature	
Start Time/Date, End Time/Date :	7/1/11 12:40 pm, 7/5/11 9 am
PrM run # :	13207
Condenser state:	on
Filter state:	off
O2 reading:	x
H2O reading:	increased to >1000 ppb in few hours, then dropped, but after 3 days was still in 300-400 ppb range.
Lifetime:	dropped to <2 ms in 10 h, then stayed < 1 ms
Liquid Test	
Start Time/Date, End Time/Date :	7/7/11 8:45 am, 7/8/11 11 am
PrM run # :	13269
Condenser state:	on
Filter state/settings:	off
O2 reading:	x
H2O reading:	increased to 97 ppb then stayed in 50-70 ppb range
Temperature:	95 K
Lifetime:	6-10 ms
VaporTest	
Start Time/Date, End Time/Date :	7/8/11 11 am, 7/11/11 11 am
PrM run # :	13288
Condenser state:	on
Filter state/settings:	off
O2 reading:	x
H2O reading:	increased to 90 ppb then stayed in 50-70 ppb range
Temperature:	157-171 K
Lifetime:	3-8 ms
Results/comments	

Pultruded Fiberglass Test 7/1/2011 - 7/11/2011

1. Room temperature test.

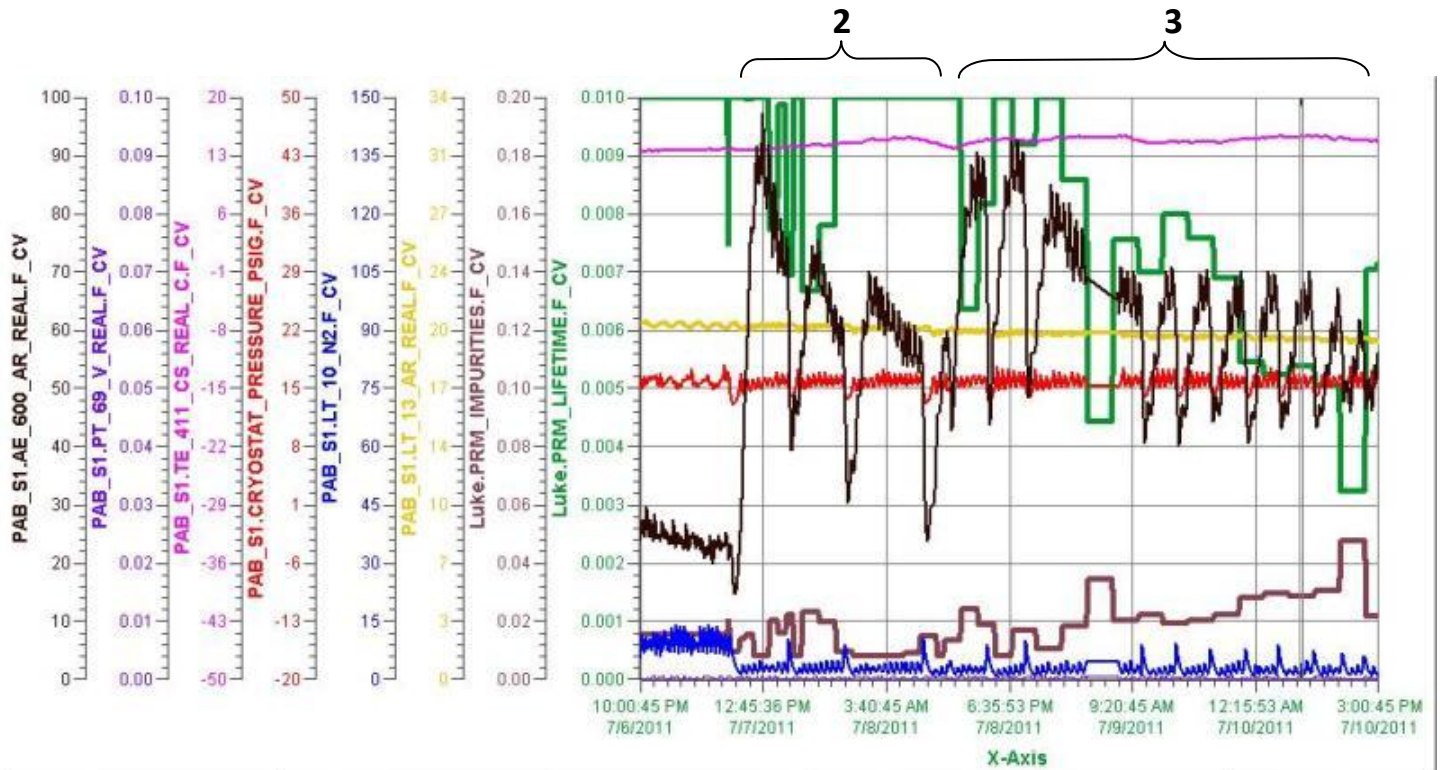
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Pen Name	Description	Value	Eng Units	High Over Range	Low Over Range
Luke.PRM_LIFETIME.F_CV	Luke.PRM_LIFETIME.F_CV	0.00057	sec	0.02000	0.00030
Luke.PRM_IMPURITIES.F...	Luke.PRM_IMPURITIES.F_CV	0.2635	imps	0.5038	0.0075
PAB_S1_LT_13_AR_REAL	Luke Argon Level Probe	21.5	inches	22.4	21.1
PAB_S1_LT_10_N2_F_CV	Luke Condenser LN2 Level Pro...	3.4	inches	11.5	-0.0
PAB_S1_CRYOSTAT_PRE...	Luke Vapor Pressure	15.2	psig	17.5	13.0
PAB_S1_TE_411_CS_REA...	TC on Luke top flange (F_CV)	13.8	C	15.5	6.1
PAB_S1_PT_69_V_REAL_F...	Seal Monitor Vacuum	0.0001	Torr	0.0007	-0.0022
PAB_S1_AE_600_AR_REA...	Luke Halo (F_CV)	296.2	ppb	1,151.6	4.1

7/1/2011 9:00:45 AM 7/5/2011 1:34:00 AM

2. Liquid test.
3. Vapor test.



Pen Name	Description	Value	Eng Units	High Over Range	Low Over Range
— Luke.PRM_LIFETIME.F_CV	Luke.PRM_LIFETIME.F_CV	0.00533	sec	0.02000	0.00320
— Luke.PRM_IMPURITIES.F_CV	Luke.PRM_IMPURITIES.F_CV	0.0281	Imps	0.0469	0.0075
— PAB_S1.LT_13.AR.REAL.F_CV	Luke Argon Level Probe	20.0	inches	20.9	19.6
— PAB_S1.LT_10.N2.F_CV	Luke Condenser LN2 Level Pro...	4.0	inches	13.9	0.6
— PAB_S1.CRYOSTAT.PRE...	Luke Vapor Pressure	15.0	psig	17.7	13.1
— PAB_S1.TE_411.CS.REA...	TC on Luke top flange (F_CV)	15.4	C	15.4	13.4
— PAB_S1.PT_69.V.REAL.F...	Seal Monitor Vacuum	0.0004	Torr	0.0007	-0.0006
— PAB_S1.AE_600.AR.REA...	Luke Halo (F_CV)	61.5	ppb	97.3	14.8

7/6/2011 10:00:45 PM 7/10/2011 3:00:45 PM

