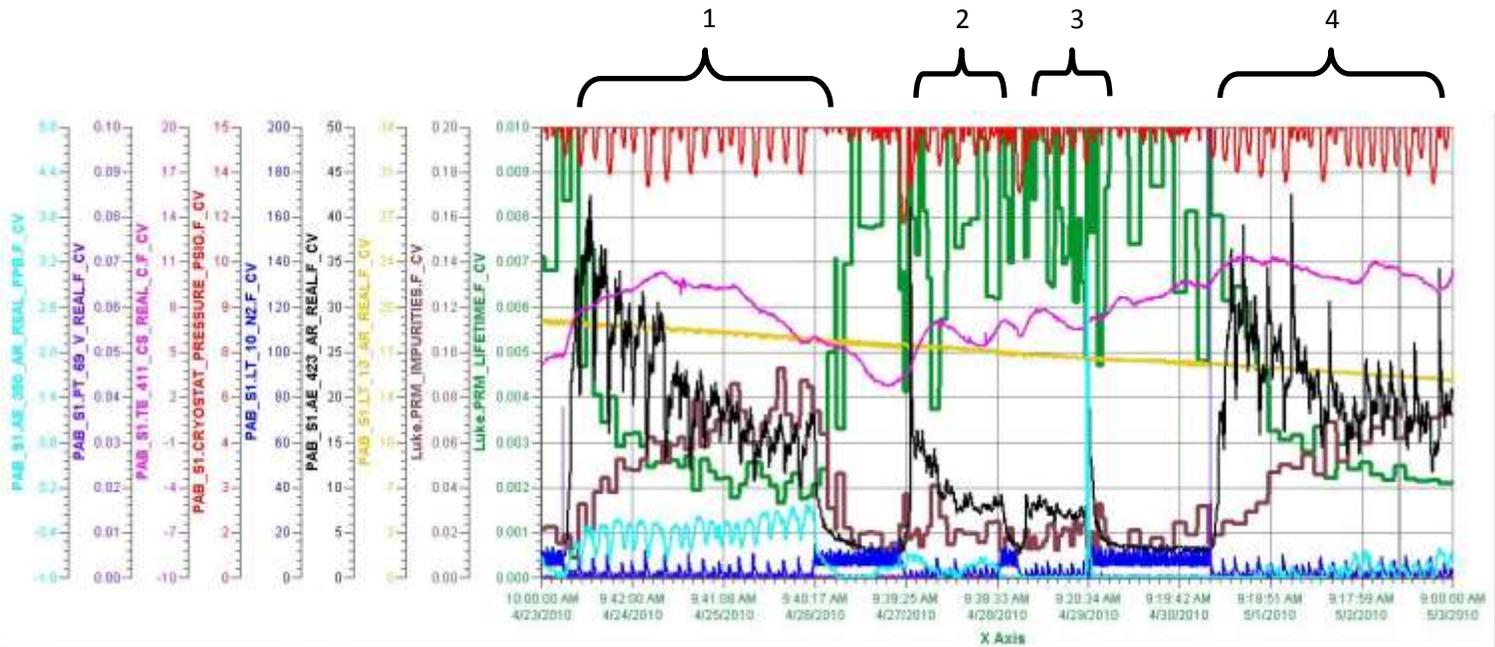


## ***PAB Materials Test System***

<b>Date of Receipt</b>	5/14/2010, logbook entry # 1254
<b>Sample Name/Description</b>	Rogers Boards cut into pieces to expose material RO 4350, RO 4003
<b>Sample</b>	
<b>Composition:</b>	glass reinforced hydrocarbon/ceramic laminate
<b>Picture Location:</b>	Data Base
<b>Weight:</b>	53 g
<b>Dimensions/Area:</b>	10.125 inch <sup>2</sup> exposed
<b>Source:</b>	Walter Jaskierny, Teppei
<b>Preparation:</b>	cleaned with alcohol
<b>Submerging in LAr or LH2</b>	no
<b>Time in the airlock(hrs)</b>	26 h
<b>Purge:</b>	4/22/10 26 h purged from the bottle
<b>Vacuum:</b>	
<b>Room Temperature</b>	
<b>Start Time/Date, End Time/Date :</b>	4/23/10 3:50 pm, 4/26/10 9:20 am
<b>PrM run # :</b>	8293
<b>Condenser state:</b>	on
<b>Filter state:</b>	off
<b>O2 reading:</b>	increased by 0.7 ppb
<b>H2O reading:</b>	from 2.3 to 40 ppb in 7 h, to 15 ppb in 2 days
<b>Lifetime:</b>	from 10 ms to 2 ms in 2 days
<b>Liquid Test</b>	
<b>Start Time/Date, End Time/Date :</b>	4/27/10 8 am, 4/28/10 10:15 am
<b>PrM run # :</b>	8341
<b>Condenser state:</b>	on
<b>Filter state:</b>	off
<b>O2 reading:</b>	increased by 0.2 ppb
<b>H2O reading:</b>	from 3 ppb to 40 ppb, stabilized at 8 ppb
<b>Temperature:</b>	95 K
<b>Lifetime:</b>	from >10 ms to 6-9 ms
<b>Liquid level :</b>	17.6"
<b>Vapor Test</b>	
<b>Start Time/Date, End Time/Date :</b>	4/28/10 2:35 pm, 4/29/10 9:30 am
<b>PrM run # :</b>	8364
<b>Condenser state:</b>	on
<b>Filter state/settings:</b>	off
<b>O2 reading:</b>	x
<b>H2O reading:</b>	3.5 ppb to 7 ppb
<b>Temperature:</b>	224 K
<b>Lifetime:</b>	7-10 ms to 6-10 ms
<b>Zero Test</b>	4/30/2010
<b>Results/comments</b>	

# Rogers Board Material Test

1. Room Temperature Test
2. Liquid test
3. Vapor Test
4. Zero Test



Pen Name	Description	Value	Eng Units	High Over Range	Low Over Range
— Luke.PRM_LIFETIME.F_CV	Luke.PRM_LIFETIME.F_CV	0.00245	sec	0.02004	0.00163
— Luke.PRM_IMPURITIES.F_CV	Luke.PRM_IMPURITIES.F_CV	0.0612	Imps	0.0919	0.0072
— PAB_S1_LT_10_AR_REAL.F_CV	Luke Arsen Level Probe	15.2	inches	15.8	14.6
— PAB_S1_AE_423_AR_REAL.F_CV	HALO H2O meter (F_CV)	18.7	ppb	42.6	2.2
— PAB_S1_LT_10_N2.F_CV	Luke Condenser LN2 Level Probe (F_CV)	0.8	inches	16.8	-0.0
— PAB_S1_CRYOSTAT_PRESSURE_PSI0.F_CV	Luke Vapor Pressure	14.5	psig	18.4	11.0
— PAB_S1_TE_411_CS_REAL.C_F_CV	TC on Luke top flange (F_CV)	10.4	C	11.3	2.7
— PAB_S1_FT_69_V_REAL.F_CV	Seal Monitor Vacuum	0.0001	Torr	0.3347	-0.0011
— PAB_S1_AE_350_AR_REAL.PPB.F_CV	ppb Methane Mtr reading (F_CV)	-1.7	ppb	3.4	1.5

4/23/2010 10:00:00 AM

5/3/2010 9:00:00 AM

