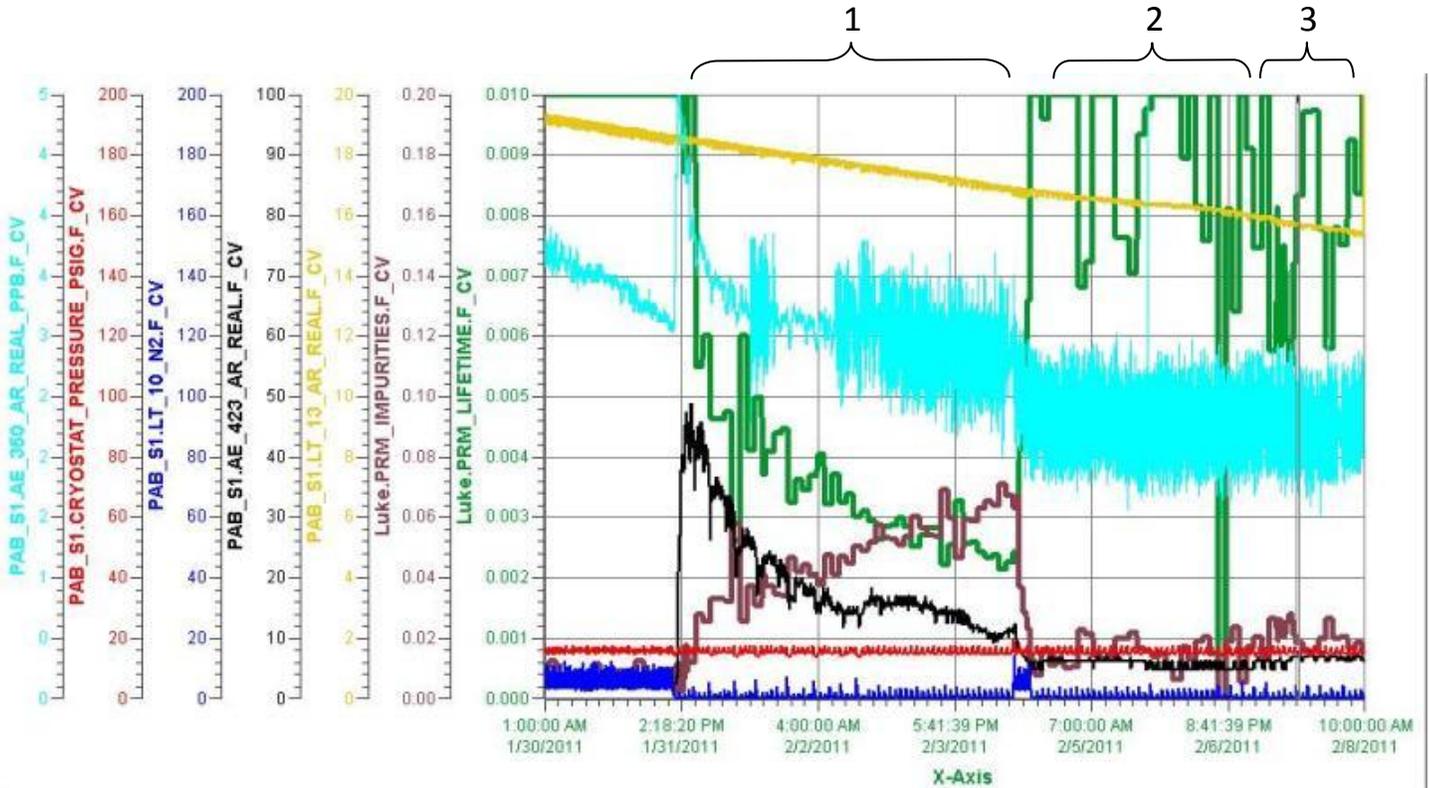


PAB Materials Test System

Date of Receipt	2/12/2011, logbook # 1480
Sample Name/Description	Primary membrane of the LBNE AR20 membrane cryostat with vinyl film
Sample	
Composition:	304L Stainless Steel, vinyl
Picture Location:	data base
Density:	x
Weight:	670 g
Dimensions/Area:	4 pieces 1.2 mm thick, look at the picture
Source:	Russ Rucinski
Preparation:	wiped dry
Submerging in LAr or LH2	no
Zero Test	no
Time in the airlock(hrs)	
Purge:	72 h from bottle and 1 h from Luke
Vacuum:	no
Room Temp Test	
Start Time/Date, End Time/Date :	1/31/11 1:15 pm, 2/4/11 10 am
PrM run # :	11394
Condenser state:	on
Filter state:	off
O2 reading:	some increase in the beginning then dropped
H2O reading:	47 ppb in 4 hours, stabilized at 10-20 ppb
Lifetime:	2-3 ms
Liquid Test	
Start Time/Date, End Time/Date :	2/4/11 2:30 pm, 2/7/11 10:25 am
PrM run # :	11450
Condenser state:	on
Filter state:	off
O2 reading:	no increase
H2O reading:	no increase
Temperature:	95 K
Lifetime:	6-10 ms
Liquid level :	16.8 inches to 15.8 inches
Vapor Test	
Start Time/Date, End Time/Date :	2/7/11 2:30 pm, 2/8/11 11:30 am
PrM run # :	11486
Condenser state:	on
Filter state/settings:	off
O2 reading:	no increase
H2O reading:	no increase
Temperature:	223 K
Lifetime:	6-10 ms
Liquid level :	15.7 inches to 15.4 inches
Results & Comments	

Primary membrane of the LBNE AR20 membrane cryostat with vinyl film.

1. Room temperature test.
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	0.008	sec	0.096	-0.076
— Luke.PRM_IMPURITIES.F_CV	Luke.PRM_IMPURITIES.F_CV	0.0180	Imps	0.0703	-0.0020
— PAB_S1.LT_13.AR_REAL	Luke Argon Level Probe	15.7	inches	22.2	15.3
— PAB_S1.AE_423.AR_REAL	HALO H2O meter (F_CV)	6.8	ppb	48.8	1.5
— PAB_S1.LT_10.N2.F_CV	Luke Condenser LN2 Level Pro...	0.8	inches	13.9	-0.0
— PAB_S1.CRYOSTAT_PRE...	Luke Vapor Pressure	14.1	psig	19.6	13.5
— PAB_S1.AE_350.AR_REAL	ppb version for plotting (F_CV)	2.2	ppb	2,623.1	1.5

1/30/2011 1:00:00 AM 2/8/2011 10:00:00 AM

