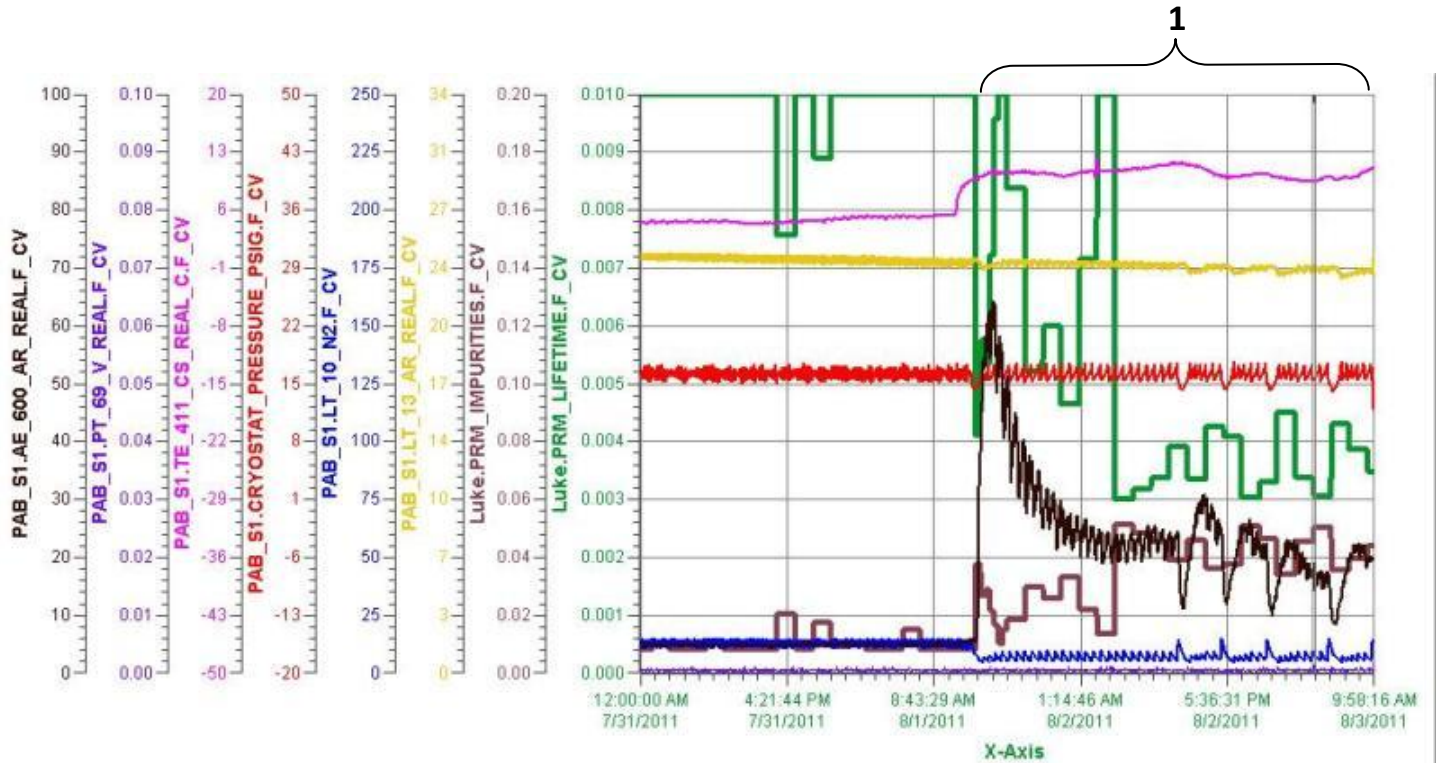


PAB Materials Test System

| | |
|---|---|
| Date of Receipt | 08/10/11 , logbook entry # 1883 |
| Sample Name/Description | Wire mesh knitted SS wire mesh from Metexc corp. |
| Sample | |
| Composition: | SS 304 |
| Picture Location: | data base |
| Weight: | 140 g |
| Dimensions/Area: | 26 cm x 153 cm |
| Source: | Bo Yu |
| Preparation: | ultasonic cleaned for 20 min |
| Submerging in LAr or LH2 | no |
| Time in the airlock(hrs) | |
| Purge: | 3 days purged from the bottle and 1 h from Luke |
| Vacuum: | |
| Room Temperature | |
| Start Time/Date, End Time/Date : | 8/1/11 1 pm, 8/3/11 10 am |
| PrM run # : | 13544 |
| Condenser state: | on |
| Filter state: | off |
| O2 reading: | x |
| H2O reading: | increased to 64 ppb in the first 2.5 h, then dropped and stayed in 20-25 ppb range |
| Lifetime: | 3-4 ms |
| Liquid Test | |
| Start Time/Date, End Time/Date : | 8/3/11 3:23 pm, 8/4/11 10 am |
| PrM run # : | 13579 |
| Condenser state: | on |
| Filter state/settings: | off |
| O2 reading: | x |
| H2O reading: | increased from 6 to 12 ppb |
| Temperature: | 95 K |
| Lifetime: | 5-10 ms |
| VaporTest | |
| Start Time/Date, End Time/Date : | 8/4/11 10 am, |
| PrM run # : | 13597 |
| Condenser state: | on |
| Filter state/settings: | off |
| O2 reading: | x |
| H2O reading: | 8-15 ppb |
| Temperature: | 215 K |
| Lifetime: | 5-10 ms |
| Results/comments | |

Wire Mesh Test 7/29/2011 – 8/5/2011

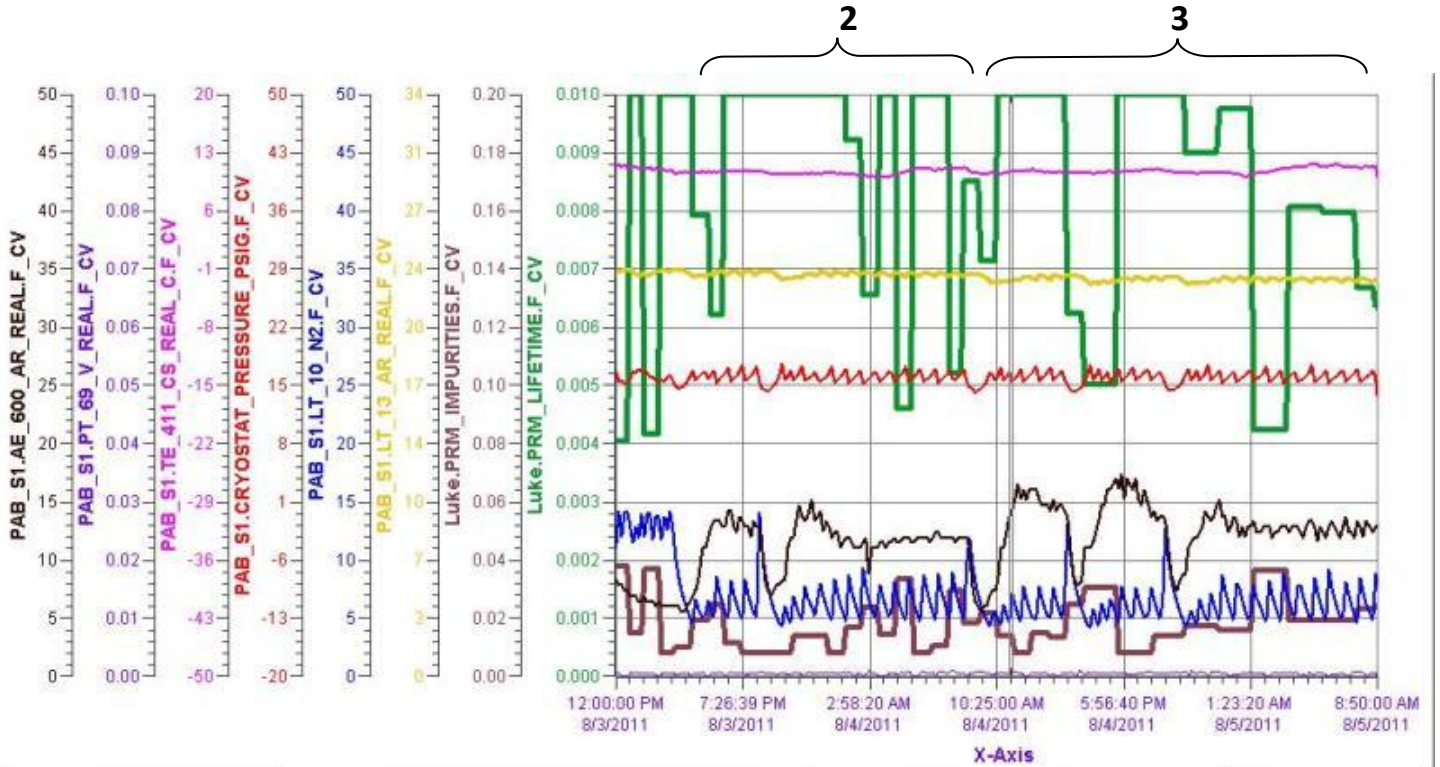
1. Room temperature test.



| Pen Name | Description | Value | Eng Units | High Over Range | Low Over Range |
|--------------------------|---------------------------------|---------|-----------|-----------------|----------------|
| Luke.PRM_LIFETIME.F_CV | Luke.PRM_LIFETIME.F_CV | 0.00328 | sec | 0.02000 | 0.00297 |
| Luke.PRM_IMPURITIES.F_CV | Luke.PRM_IMPURITIES.F_CV | 0.0458 | Imps | 0.0505 | 0.0075 |
| PAB_S1.LT_13_AR_REAL | Luke Argon Level Probe | 23.8 | inches | 24.6 | 23.2 |
| PAB_S1.LT_10_N2.F_CV | Luke Condenser LN2 Level Pro... | 8.6 | inches | 14.5 | 4.1 |
| PAB_S1.CRYOSTAT_PRE... | Luke Vapor Pressure | 15.4 | psig | 17.7 | 11.7 |
| PAB_S1.TE_411_CS_REA... | TC on Luke top flange (F_CV) | 9.5 | C | 12.6 | 4.3 |
| PAB_S1.PT_69_V_REAL.F... | Seal Monitor Vacuum | 0.0004 | Torr | 0.0016 | 0.0001 |
| PAB_S1.AE_600_AR_REA... | Luke Halo (F_CV) | 18.5 | ppb | 64.1 | 4.1 |

7/31/2011 12:00:00 AM Start of This Week Current 8/3/2011 9:58:16 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 | 0.01115 | sec | 0.02000 | 0.00401 |
| — Luke.PRM_IMPURITIES.F... | Luke.PRM_IMPURITIES.F_CV | 0.0135 | Imps | 0.0374 | 0.0075 |
| — PAB_S1.LT_13_AR_REAL | Luke Argon Level Probe | 23.1 | inches | 23.7 | 22.8 |
| — PAB_S1.LT_10_N2_F_CV | Luke Condenser LN2 Level Pro... | 5.2 | inches | 14.2 | 4.1 |
| — PAB_S1.CRYOSTAT_PRE... | Luke Vapor Pressure | 16.3 | psig | 17.6 | 13.7 |
| — PAB_S1.TE_411_CS_REA... | TC on Luke top flange (F_CV) | 10.7 | C | 11.5 | 10.0 |
| — PAB_S1.PT_69_V_REA... | Seal Monitor Vacuum | 0.0004 | Torr | 0.0010 | -0.0033 |
| — PAB_S1.AE_600_AR_REA... | Luke Halo (F_CV) | 13.8 | ppb | 17.4 | 5.5 |

8/3/2011 12:00:00 PM 8/5/2011 8:50:00 AM



