

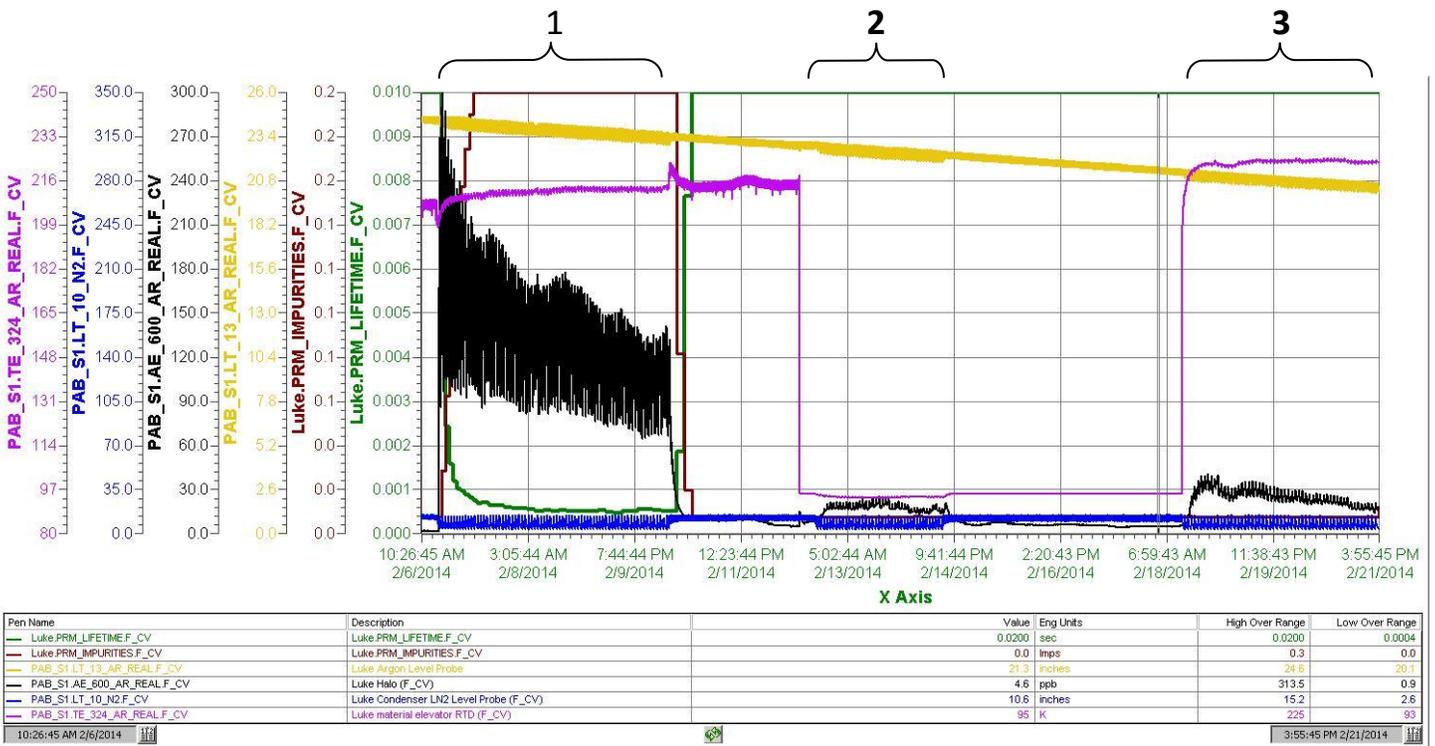
**LBNE Fiberglass Reinforced Polyester I-Beam Test 2/6/2014 – 3/4/2014**

<b>Date of Receipt</b>	3/4/2014 , logbook entry # 4908
<b>Sample Name/Description</b>	Fiberglass I-Beam McMaster part number 9468T12
<b>Sample</b>	
<b>Composition:</b>	fiberglass-reinforced polyester (FRP)(structural fiberglass)
<b>Picture Location:</b>	data base
<b>Weight:</b>	111.7 g
<b>Dimensions/Area:</b>	2 inches of 4 inch I beam
<b>Source:</b>	Bill Sands
<b>Preparation:</b>	alcohol cleaned
<b>Submerging in LAr or LH2</b>	x
<b>Time in the airlock(hrs)</b>	
<b>Purge:</b>	6 hours (just to get rid of the air in the airlock)
<b>Vacuum:</b>	x
<b>Room Temperature</b>	
<b>Start Time/Date, End Time/Date :</b>	2/6/2014 4:30 PM, 2/10/2014 9:05 AM
<b>PrM run # :</b>	20168
<b>Condenser state:</b>	on
<b>Filter state:</b>	off
<b>O2 reading:</b>	x
<b>H2O reading:</b>	increased from 1.4 to 300 ppb in 100 min. after opening the gate valve, then slowly dropped and stabilized in 100-150 ppb range.
<b>Lifetime:</b>	declined from >10 ms to <1 ms in 9 hours, stabilized at 0.5 ms
<b>Liquid Test</b>	
<b>Start Time/Date, End Time/Date :</b>	2/12/2014 4:50:00 PM 2/14/2014 5:45 PM
<b>PrM run # :</b>	20225
<b>Condenser state:</b>	on
<b>Filter state/settings:</b>	off
<b>O2 reading:</b>	x
<b>H2O reading:</b>	15-20 ppb
<b>Temperature:</b>	95 K
<b>Liquid Level</b>	22 inches
<b>Lifetime:</b>	> 10 ms
<b>VaporTest</b>	
<b>Start Time/Date, End Time/Date :</b>	2/18/2014 12:45 PM, 2/21/2014 4:27 PM
<b>PrM run # :</b>	20271
<b>Condenser state:</b>	on
<b>Filter state/settings:</b>	off
<b>O2 reading:</b>	x
<b>H2O reading:</b>	first increased to 35 ppb then stabilized in 15-20 ppb range
<b>Temperature:</b>	218-223 K
<b>Liquid Level</b>	21 inches
<b>Lifetime:</b>	> 10 ms
<b>Zero Test -Room Temp.</b>	2/27/14, 3/4/2014
<b>H2O reading:</b>	15-20 ppb
<b>Lifetime:</b>	2-3 ms



### Historical Data Plot:

1. Room temp. test
2. Liquid test
3. Vapor Test



Water – black pen

Lifetime – green pen

Liquid level – yellow pen