Krivit Compilation of All Data From SRI Experiment M4: Individual and Merged Layers

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SRI experiment “M4” is described in detail in EPRI report TR-107843-V1* in pages 3-158 through 3-229. These pages include three groups of information:

1. Step-by-step explanation of what happened during the experiment.
2. An hour-by-hour presentation of the data that was taken.
3. A discussion and conclusion section.

To make it easier to follow each set of information, I have compiled the pages into respective groups of excerpts, as shown on the M4 index page.

The available data in the EPRI report includes: time, current density, loading ratio, pressure, power and current. In the EPRI report, each of these data sets spans several pages. For this reason, as well as for the fact that the data is unprocessed, it is difficult to follow.

I created a time scale from 0 to 1700 hours — the bulk of the run — to display all data, contiguously on a single page. In doing so, some additional metadata became apparent as well such as the progression of D/Pd loading peaks and the effect of current ramps.

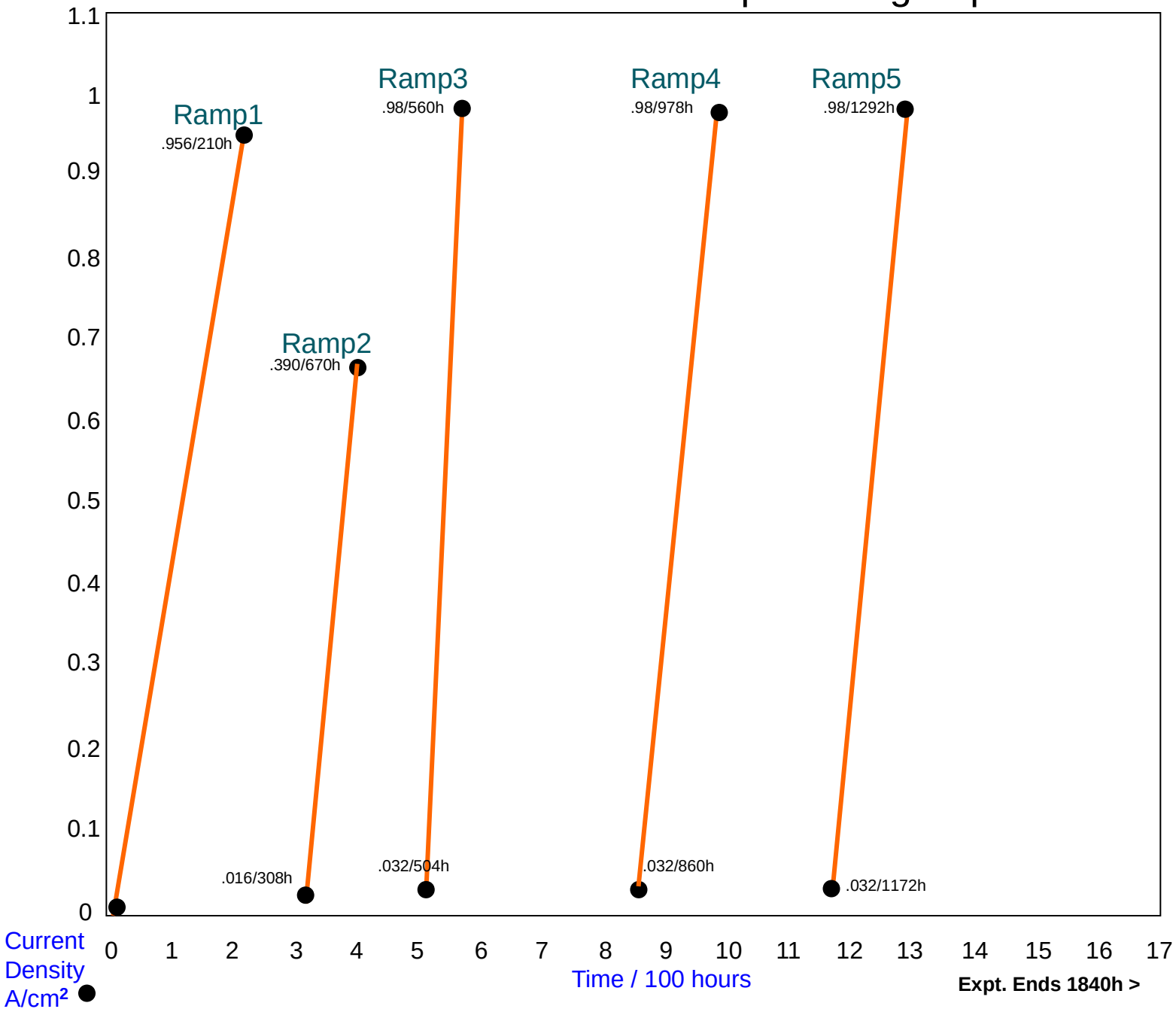
Slides 12 and 13 are not self-explanatory. For these, I direct readers to the text and slides of my report “The Emergence of an Incoherent Explanation for D-D ‘Cold Fusion.’“

I present in slides 14 and 15, all layers of each data set compiled into a single merged image. For most readers, these too, will require additional study of other documents.

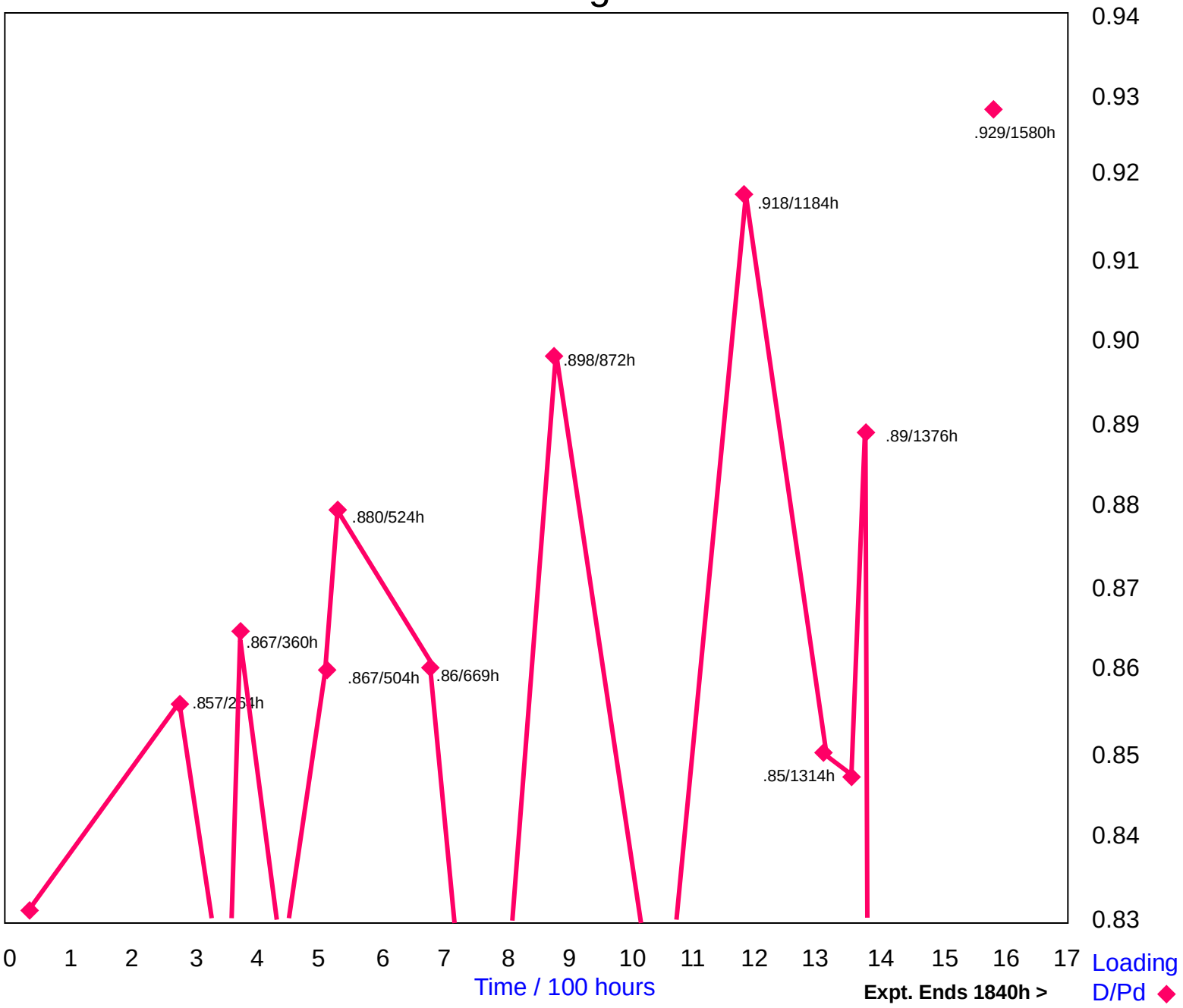
I am providing the original slides rather than a PDF file. This will allow interested readers to both scrutinize the data more easily, as well as to make other combinations to learn more about this important experiment.

* Development of Energy Production Systems from Heat Produced in Deuterated Metals - Energy Production Processes in Deuterated Metals, Volume 1, TR-107843-V1, Thomas Passell (Project Manager,) Michael McKubre, Steven Crouch-Baker, A. Huaser, N. Jevtic, S.I. Smedley, Francis Tanzella, M. Williams, S. Wing (Principal Investigators,) B. Bush, F. McMohon, M. Srinivasan, A. Wark, D. Warren (Non-SRI Contributors,) June 1998

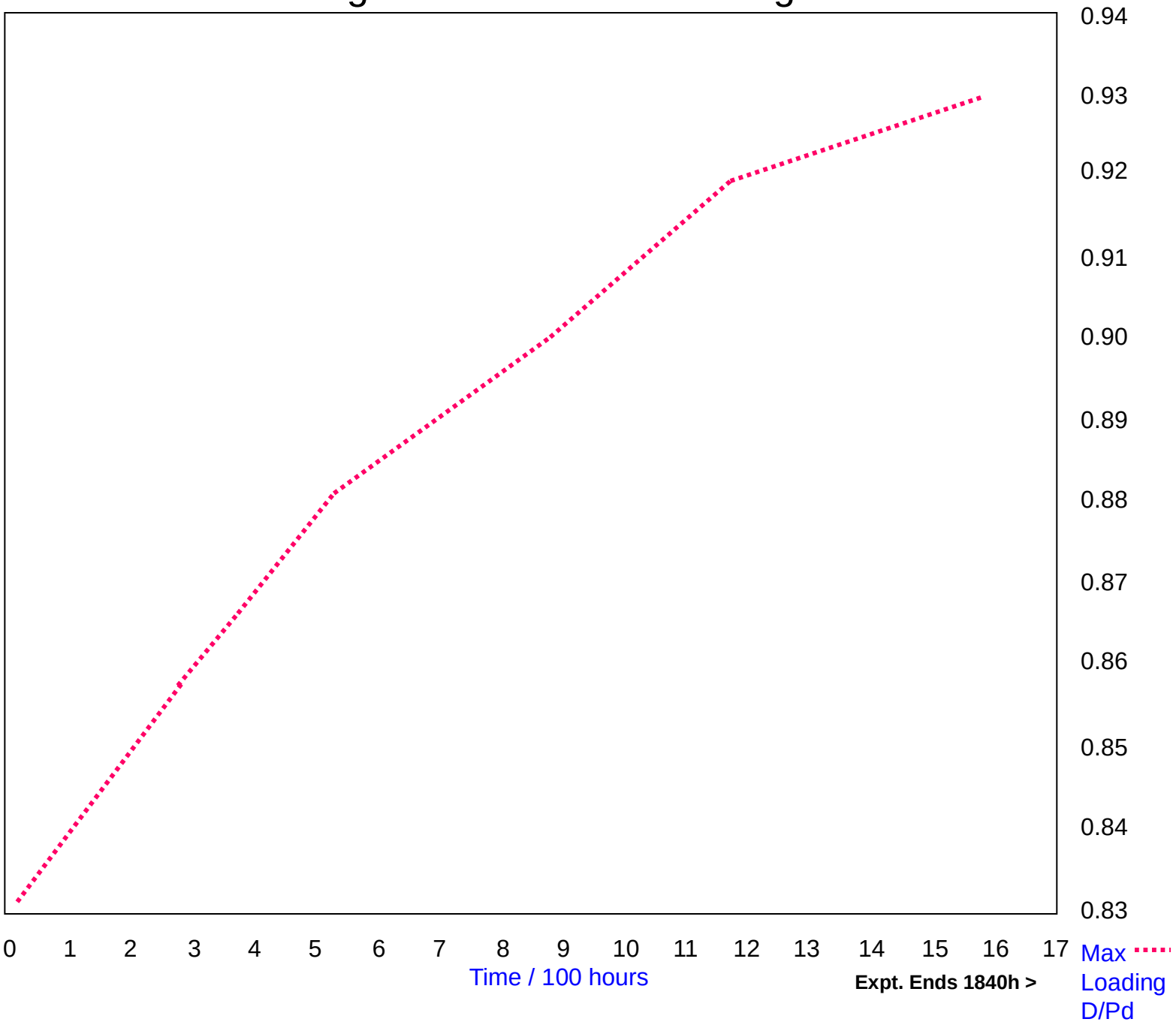
EPRI/SRI M4 – 5 Current Ramps During Experiment



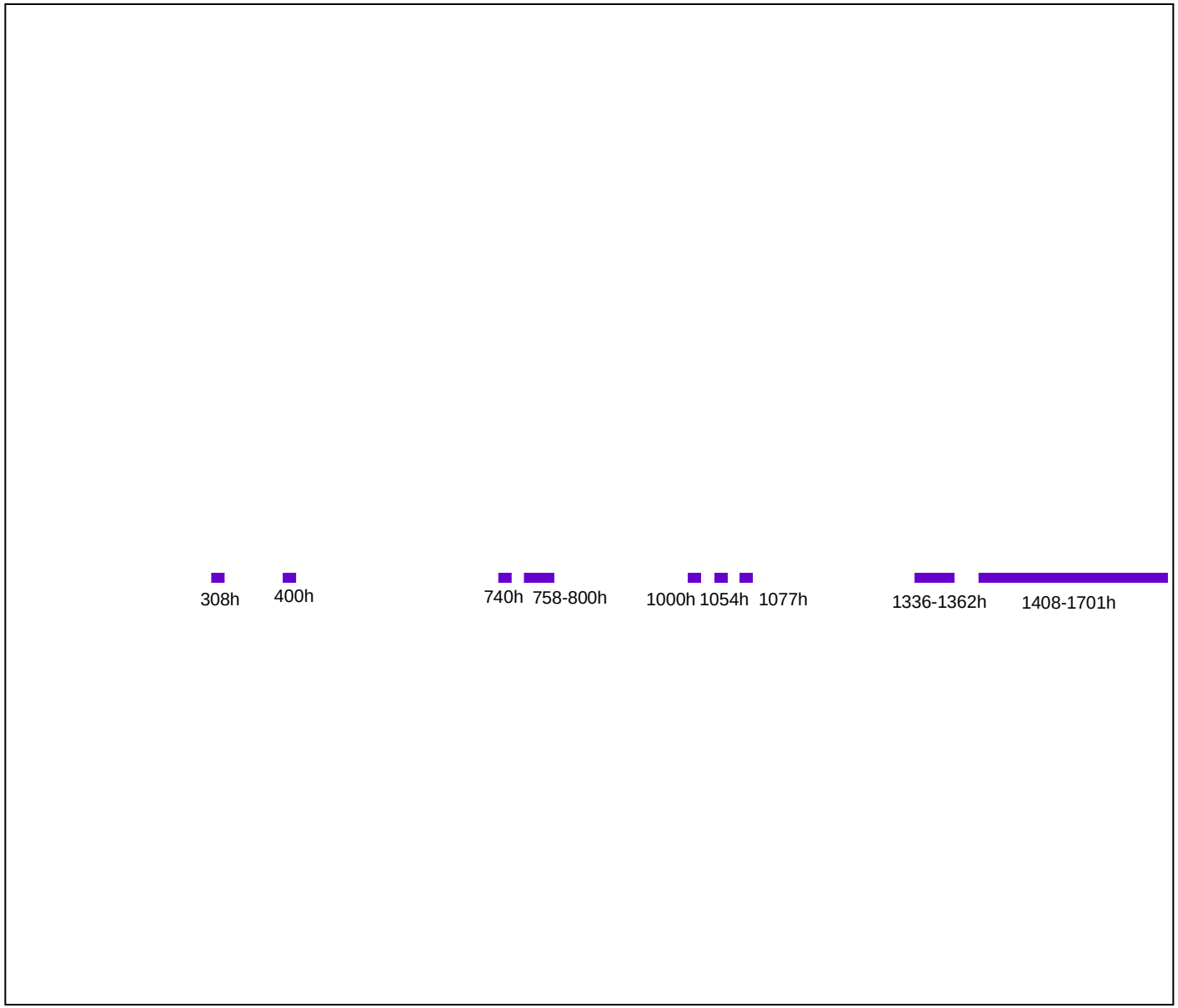
EPRI/SRI M4 – D/Pd Loading Ratio vs. Time



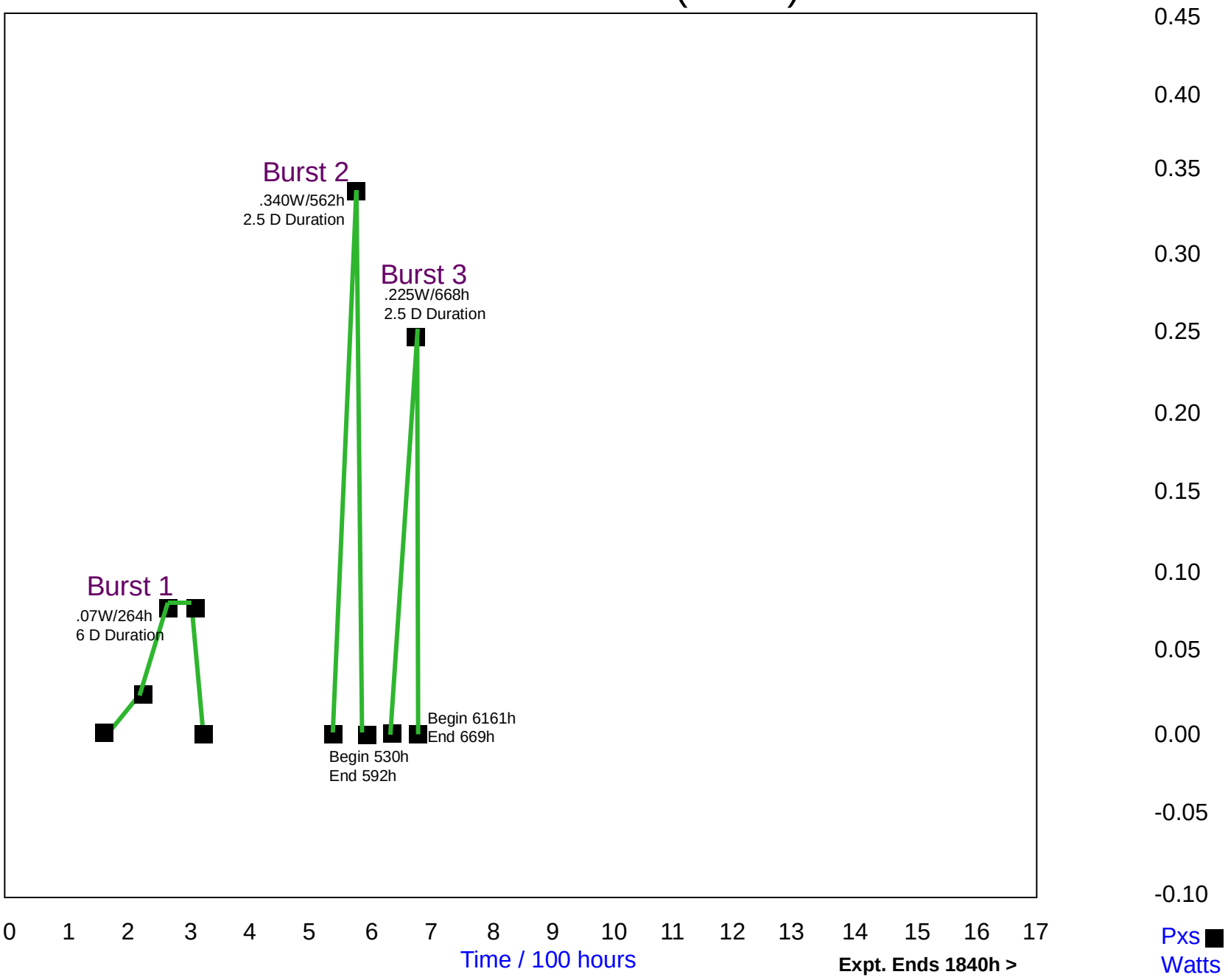
EPRI/SRI M4 – Progression of D/Pd Loading Peaks vs. Time



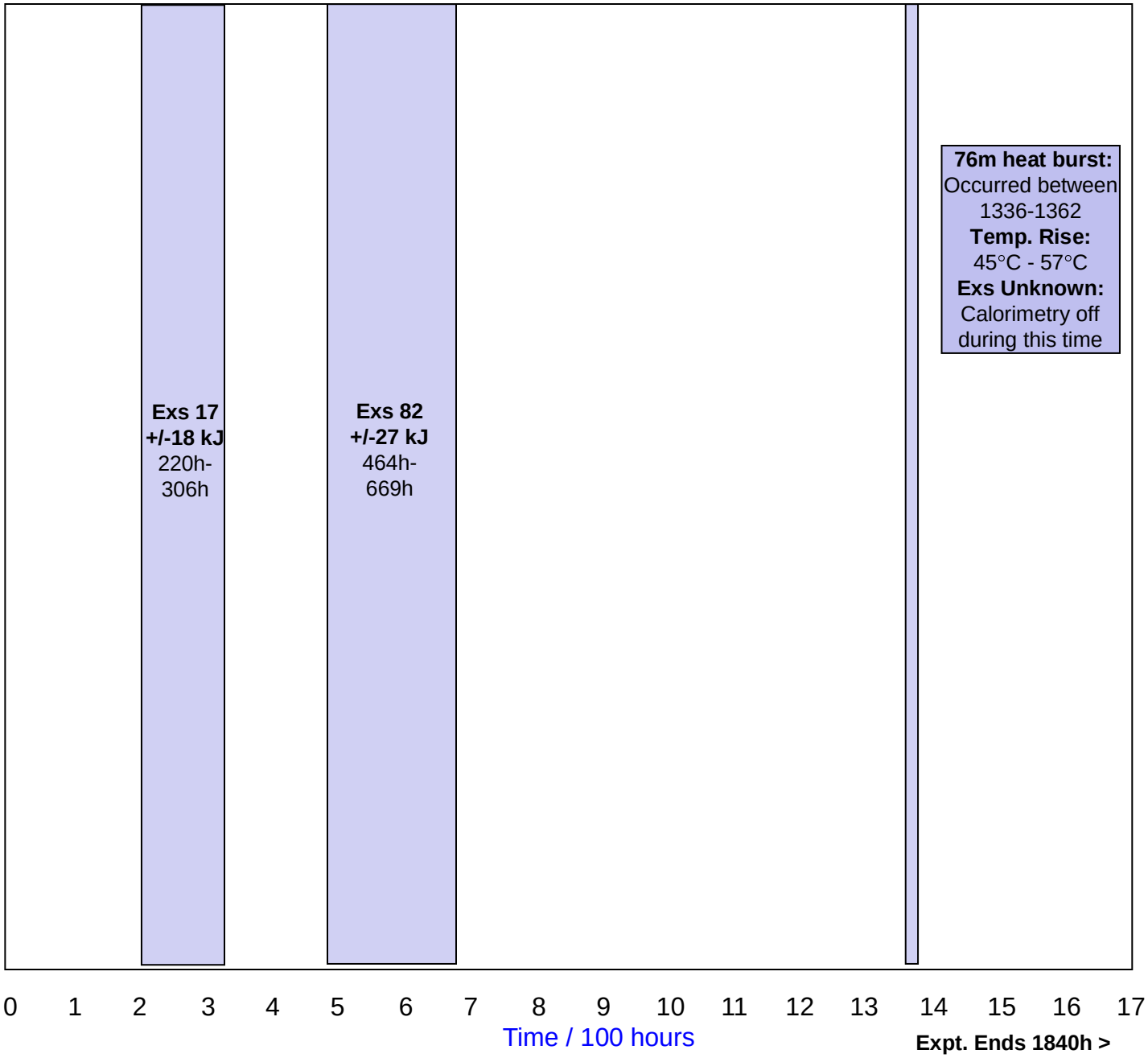
EPRI/SRI M4 – Time Periods of Electrochemical Variations



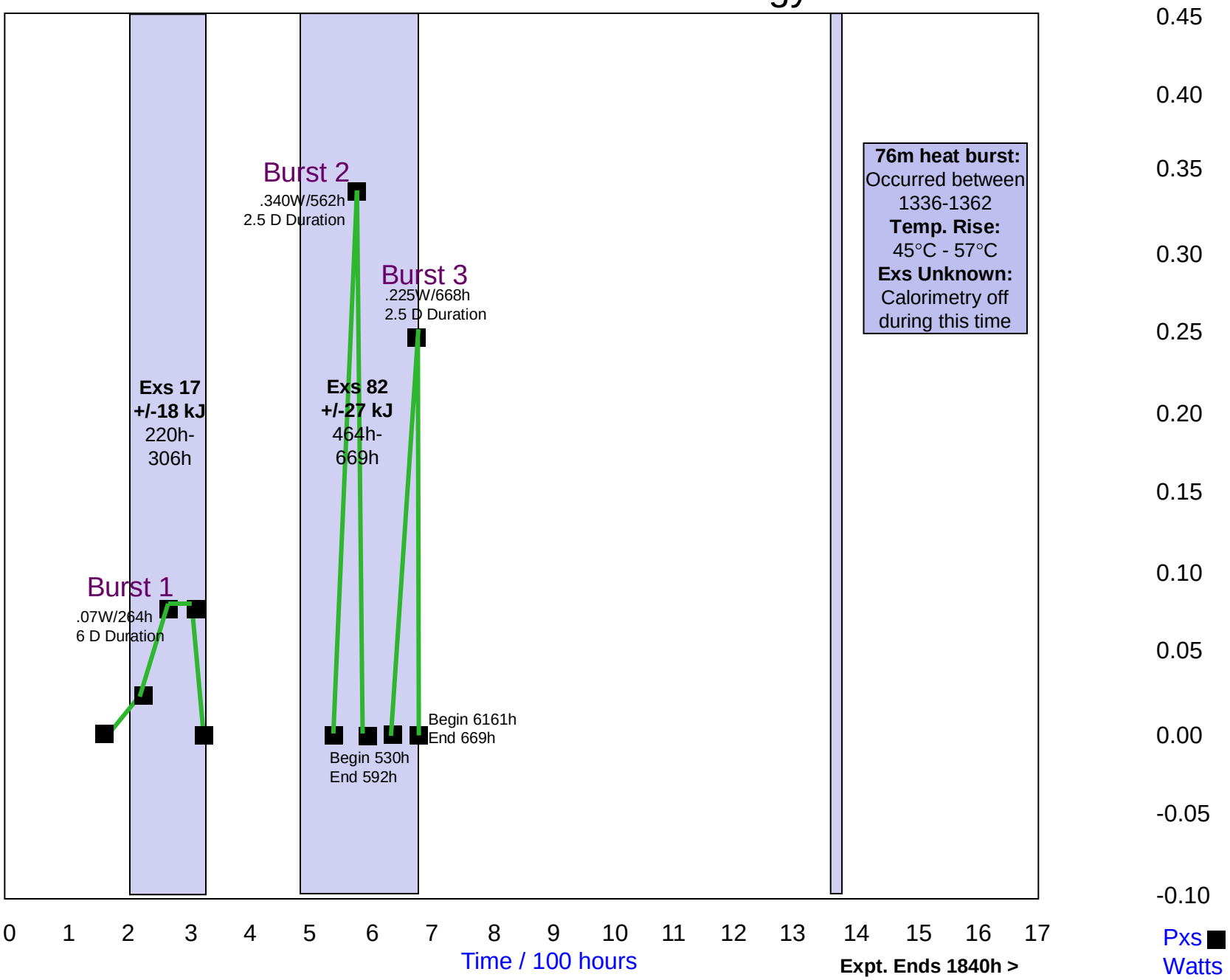
EPRI/SRI M4 – Excess Power (Watts) vs. Time



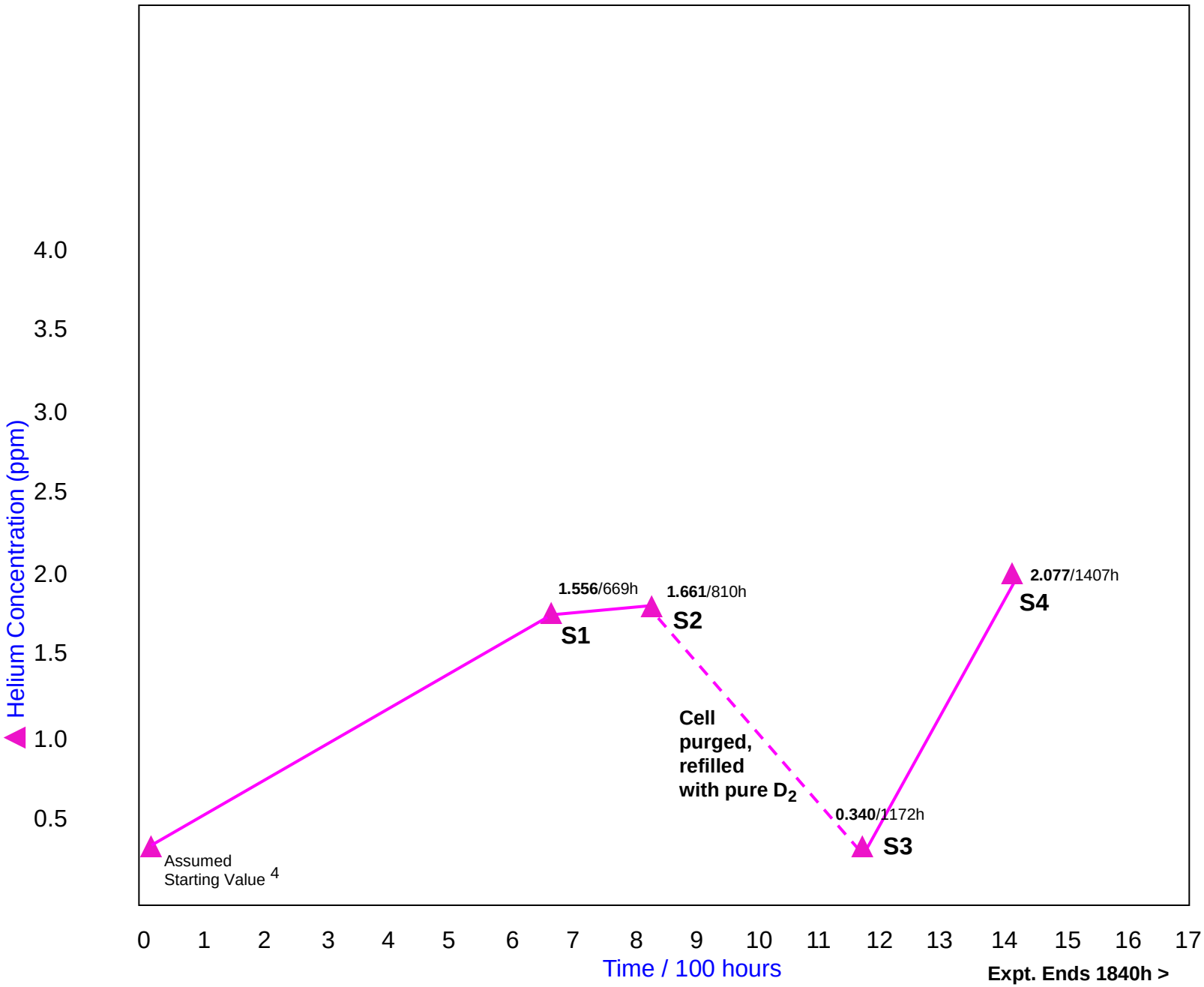
EPRI/SRI M4 – Excess Energy (Joules) vs. Time



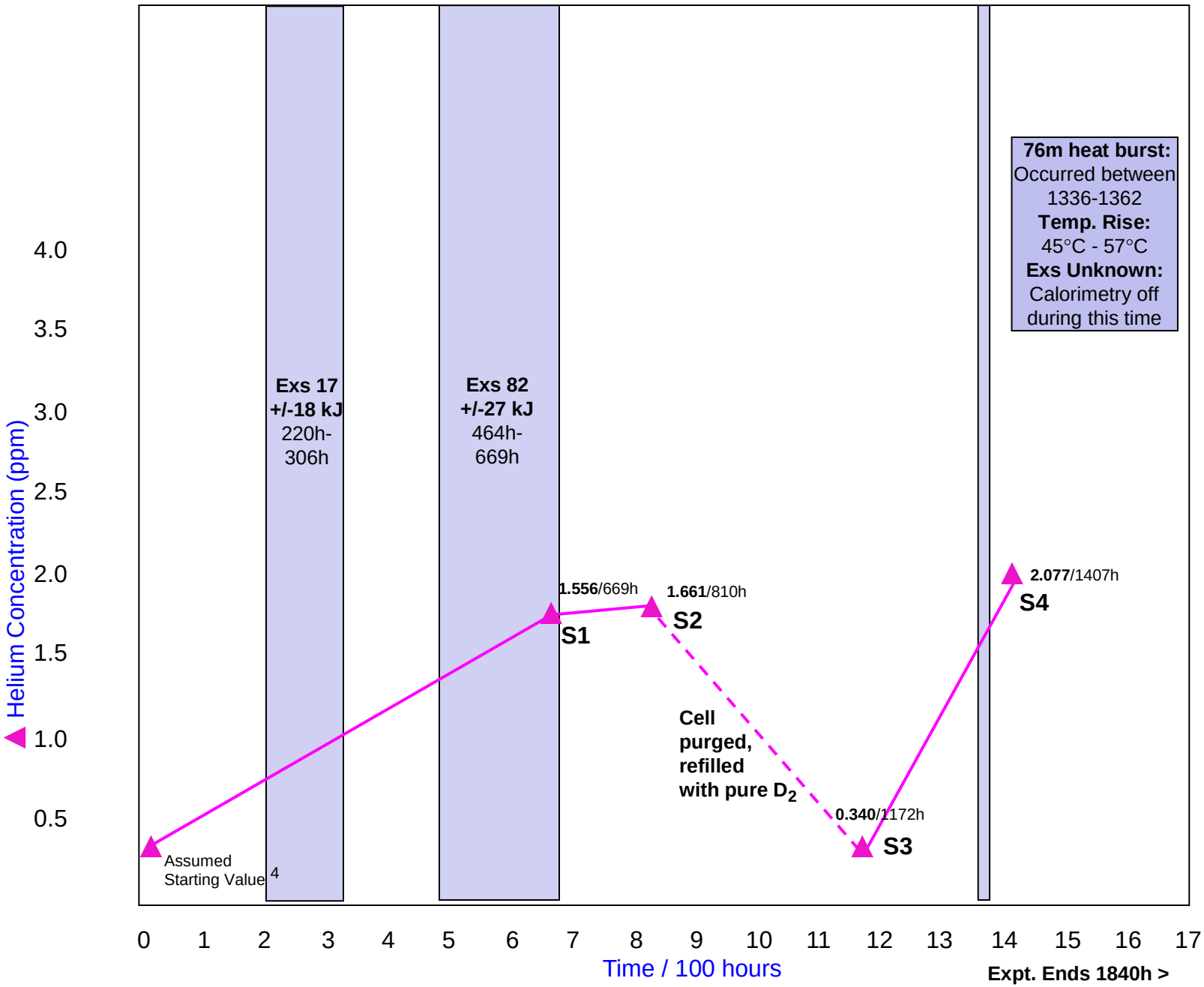
EPRI/SRI M4 – Excess Power and Energy vs. Time



EPRI/SRI M4 – Helium Samples vs. Time

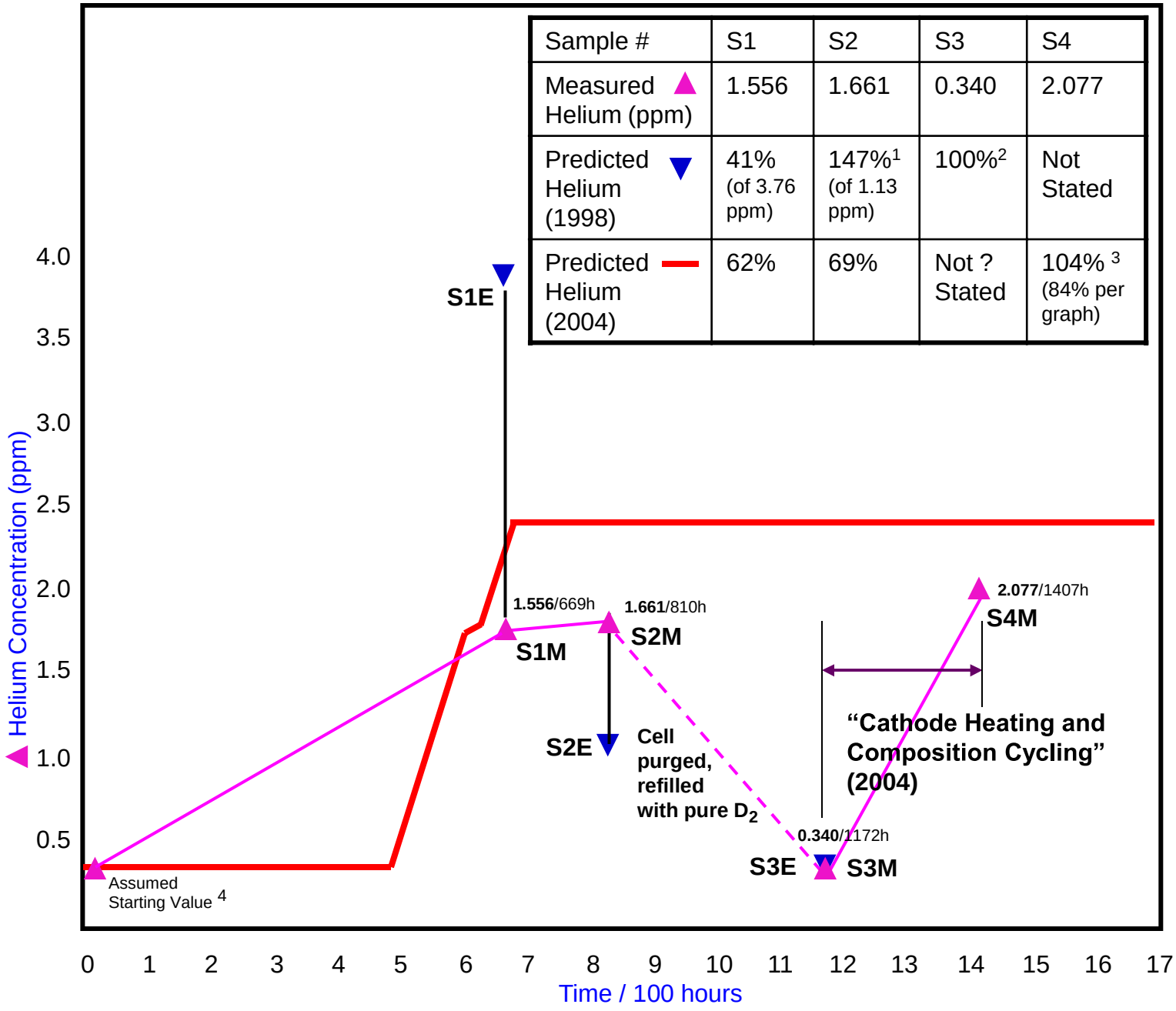


EPRI/SRI M4 – Helium Samples and Excess Energy vs. Time

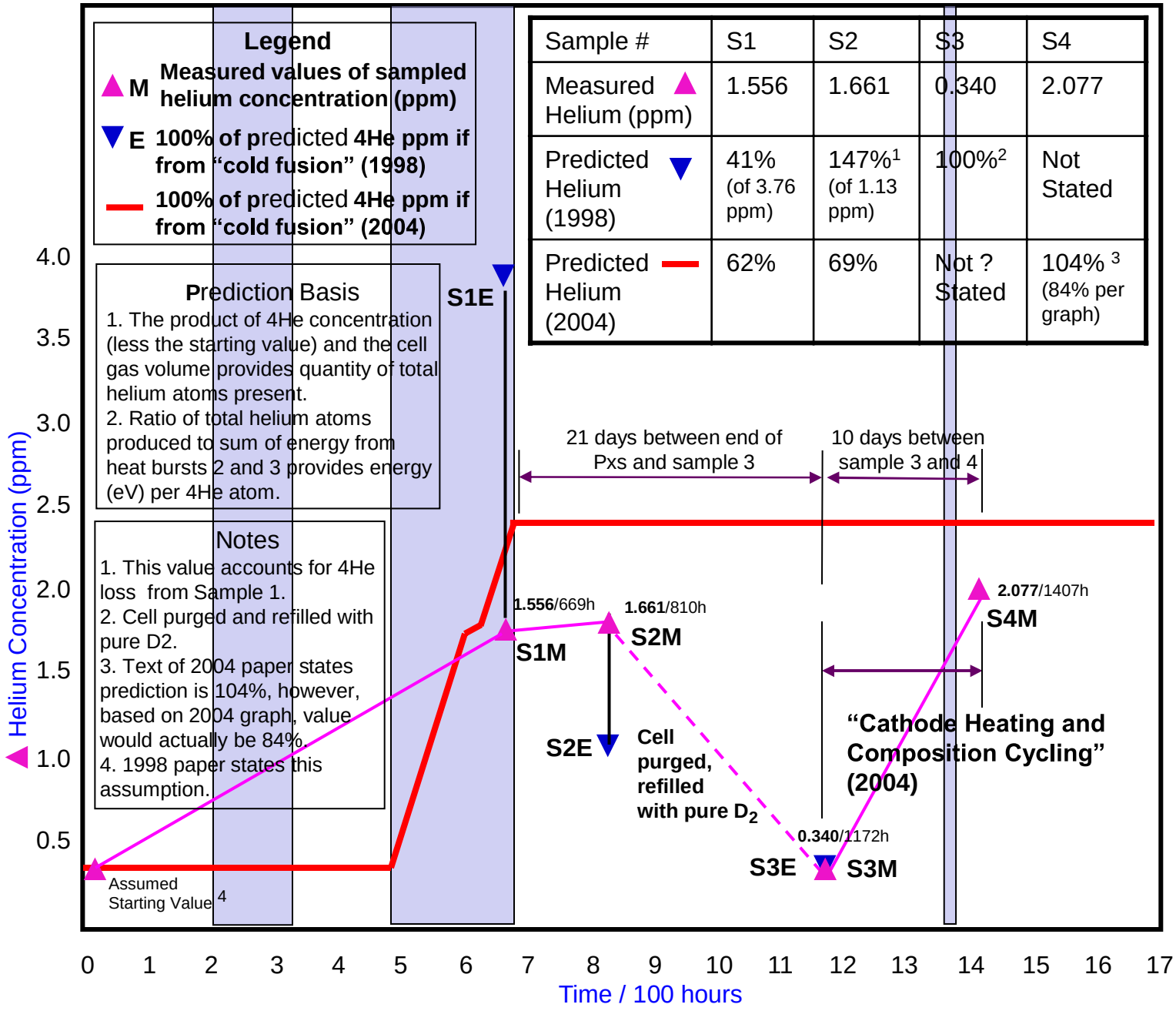


Differences in Reported 4He in 1998 vs. 2004

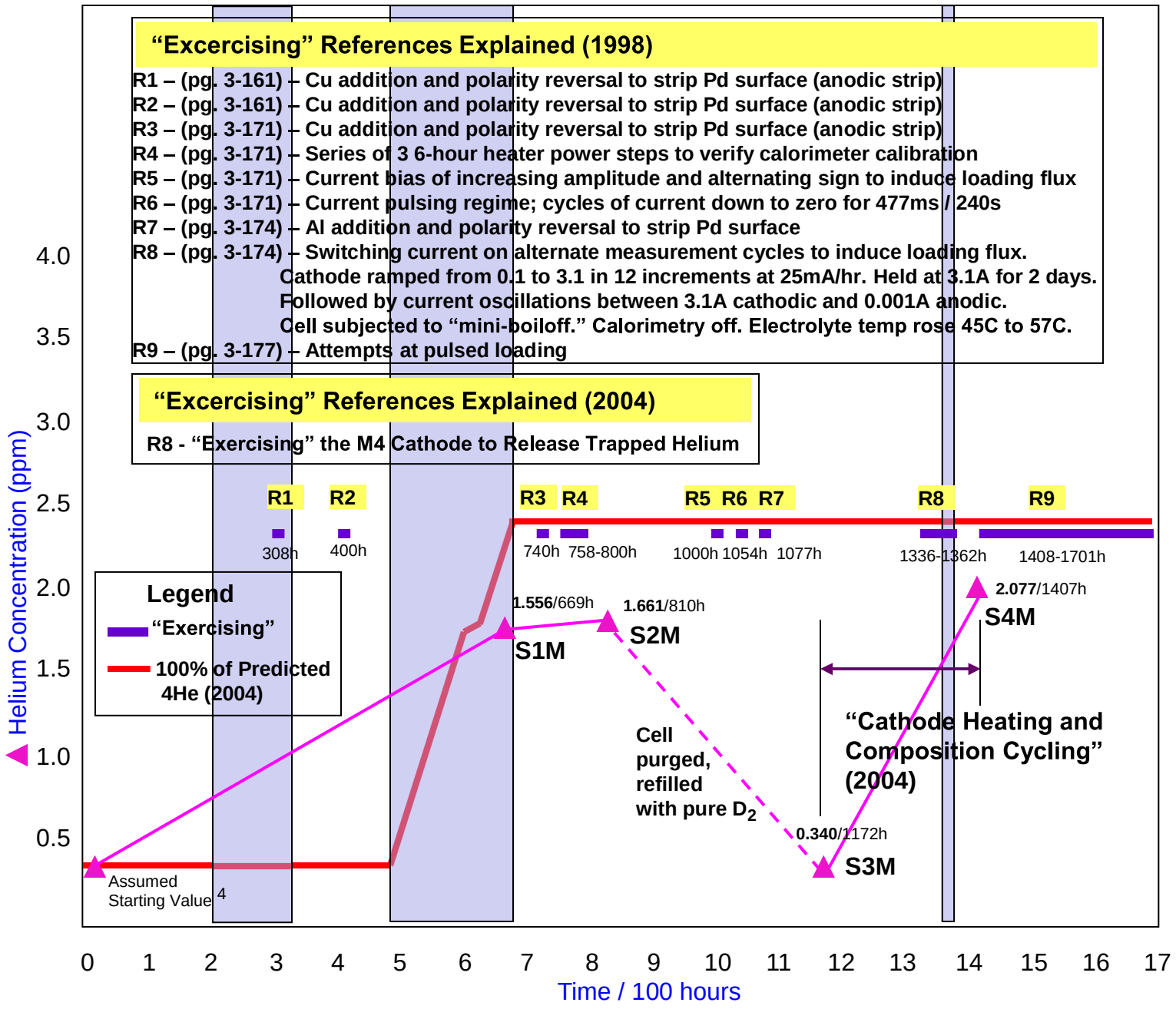
Sample #	S1	S2	S3	S4
Measured Helium (ppm) ▲	1.556	1.661	0.340	2.077
Predicted Helium (1998) ▼	41% (of 3.76 ppm)	147%[1] (of 1.13 ppm)	100%[2]	Not Stated
Predicted Helium (2004) —	62%	69%	Not ? Stated	104% [3] (84% per graph)



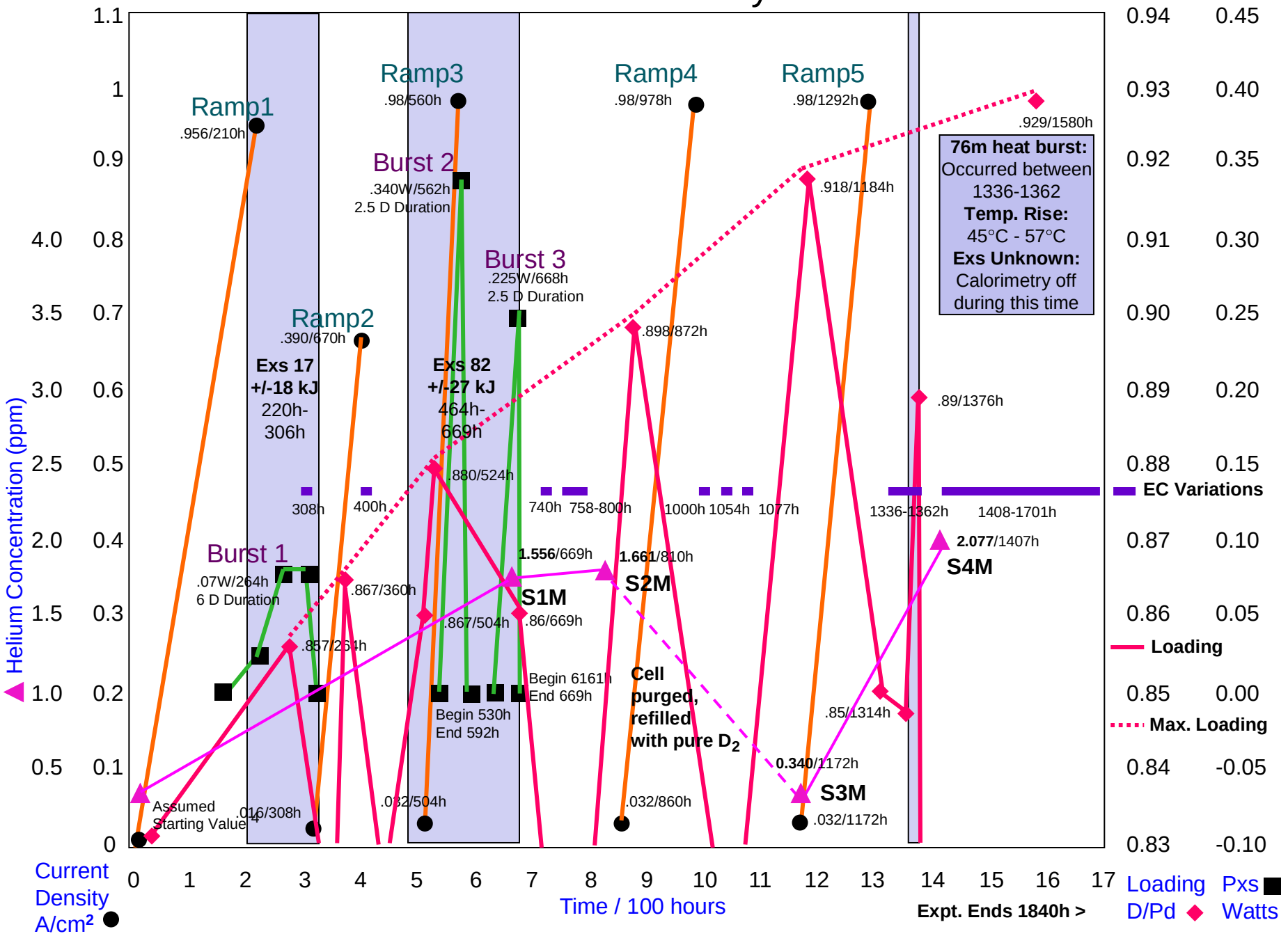
Differences in Reported 4He in 1998 vs. 2004

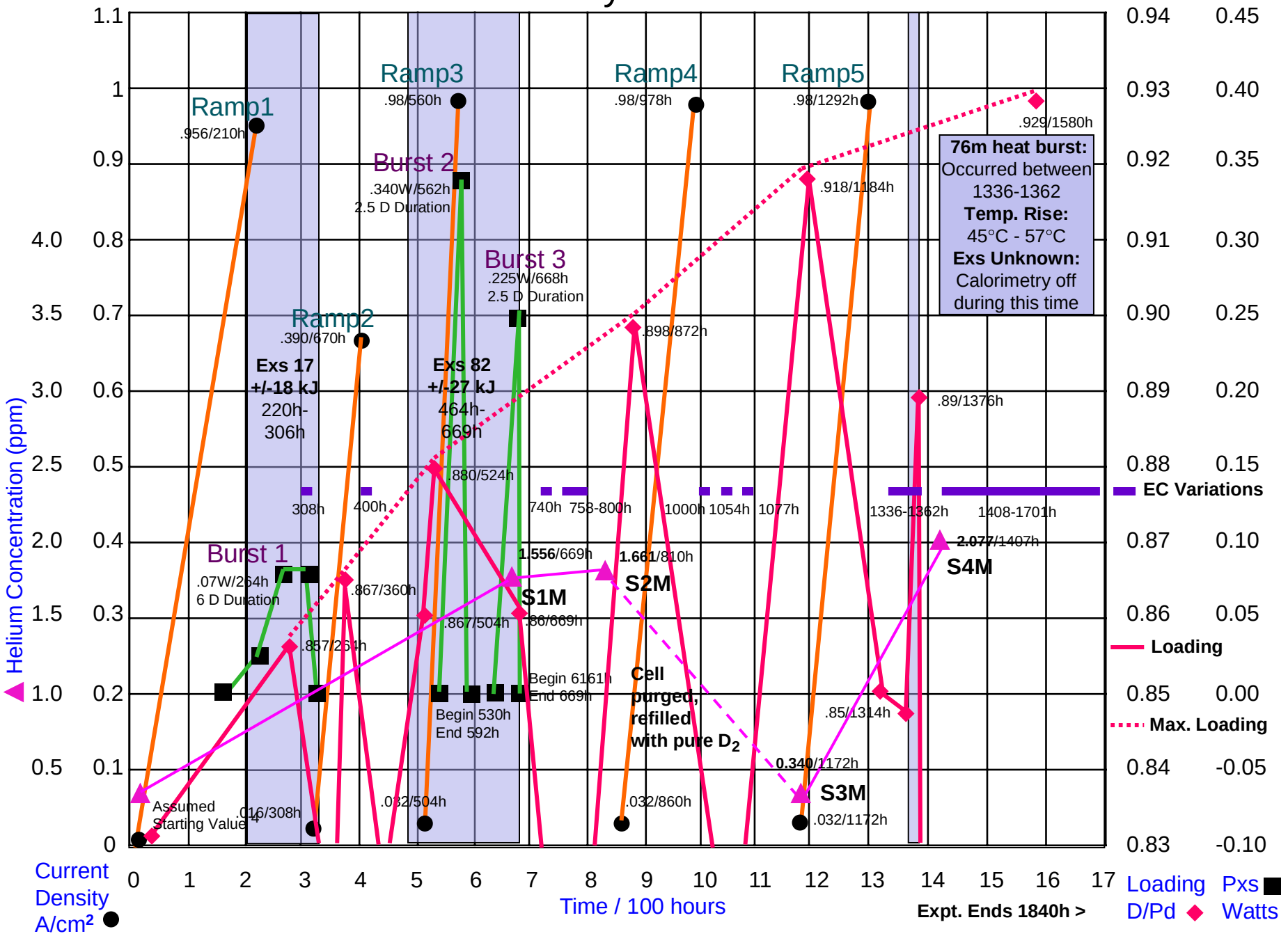


“Exercising” the M4 Cathode to Release Trapped Helium



EPRI/SRI M4 – Overlay of All Data




EPRI/SRI M4 - Overlay of All Data With Grid
Ramp1
.956/210h
Ramp3
.98/560h
Ramp4
.98/978h
Ramp5
.98/1292h
.929/1580h
Burst 2
.340W/562h
2.5 D Duration
.918/1184h
Burst 3
.225W/668h
2.5 D Duration
Ramp2
.390/670h
.898/872h
Exs 17
+/-18 kJ
220h-
306h
Exs 82
+/-27 kJ
464h-
669h
76m heat burst:
Occurred between
1336-1362
Temp. Rise:
45°C - 57°C
Exs Unknown:
Calorimetry off
during this time
.89/1376h
.880/524h
308h
400h
740h 758-800h
1000h 1054h 1077h
1336-1362h
1408-1701h
EC Variations
Burst 1
.07W/264h
6 D Duration
.867/360h
1.556/669h
1.661/810h
S2M
S1M
2.077/1407h
S4M
.867/504h
.86/669h
.857/264h
Begin 6161h
End 669h
Cell
purged,
refilled
with pure D2
Begin 530h
End 592h
.85/1314h
0.340/1172h
S3M
Assumed
Starting Value
.016/308h
.032/504h
.032/860h
.032/1172h
Loading
Max. Loading
Helium Concentration (ppm)
Current
Density
A/cm²
Time / 100 hours
Expt. Ends 1840h >
Loading Pxs
D/Pd Watts

EPRI/SRI M4 – Overlay of All Data