

Thoroughly enjoyed the Gemini exhibit you developed. It was very good.

I talked with you about a slide rule made from ordinary sheets of paper for the purpose of evaluating fuel cell performance. It was made and used in the Electrical Design group that was headed up by George Weber. He was a brilliant engineer and known for putting (packing may be a better word) complex information on single pieces of paper, including 3x5 cards. Although his initials do not show on the slide rule, I'm sure he was instrumental in requiring it be made.

I was responsible for production acceptance testing and live simulations (preceding & during Gemini 5 & 7 flights) conducted on the reactant supply and fuel cell systems.

Attached is a three page PDF of the slide rule and info on the RSS/FC system.

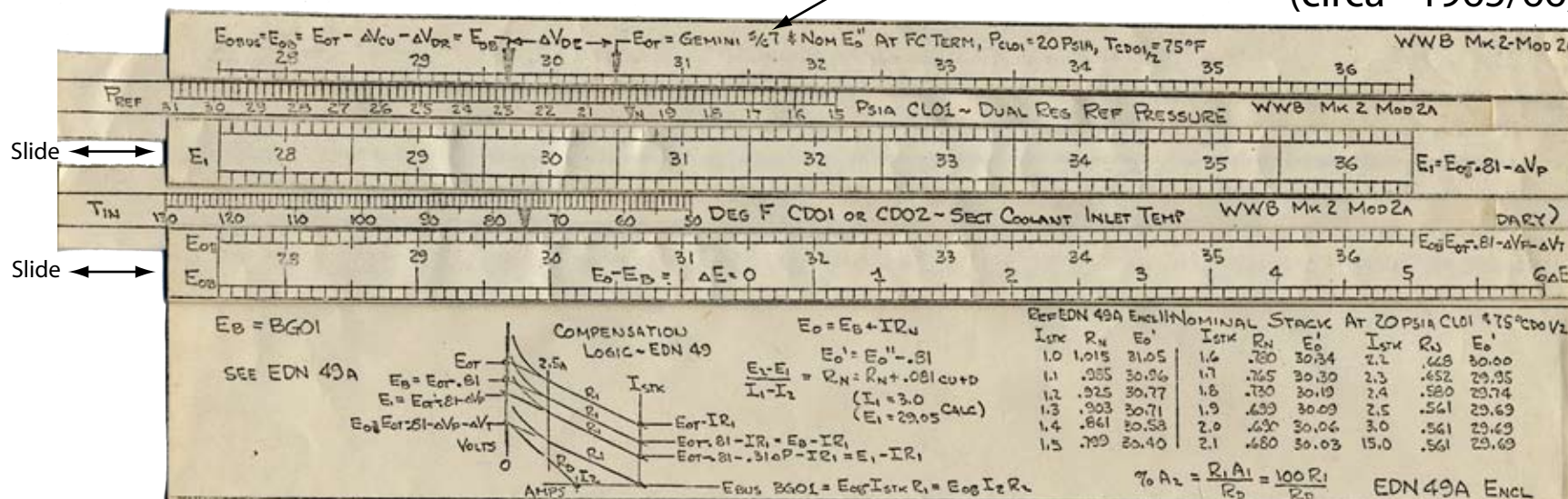
Vern Hawkins

Gemini Fuel Cell/Reactants Supply System Calculator (Slide Rule)

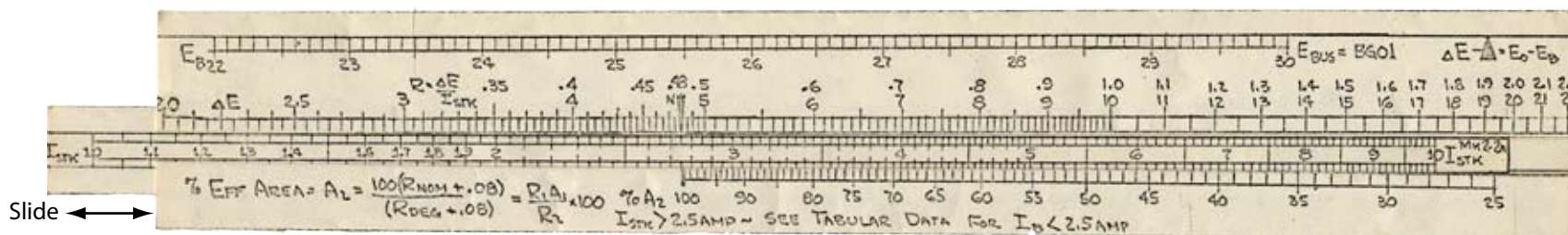
McDonnell Aircraft Company-Gemini Project

Reference to Gemini Spacecraft 7

(circa - 1965/66)

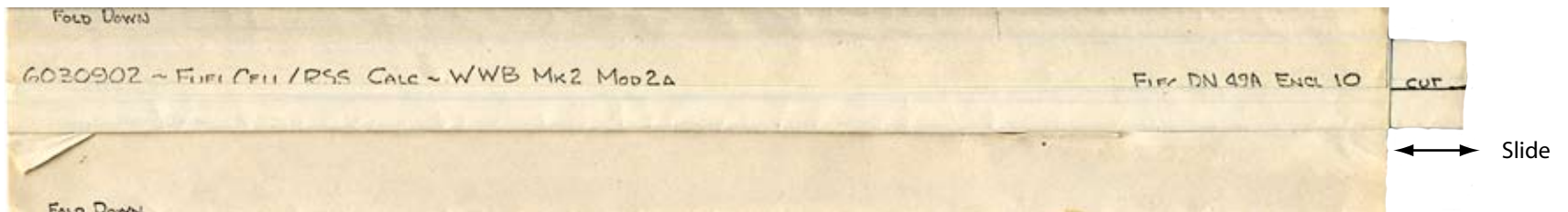
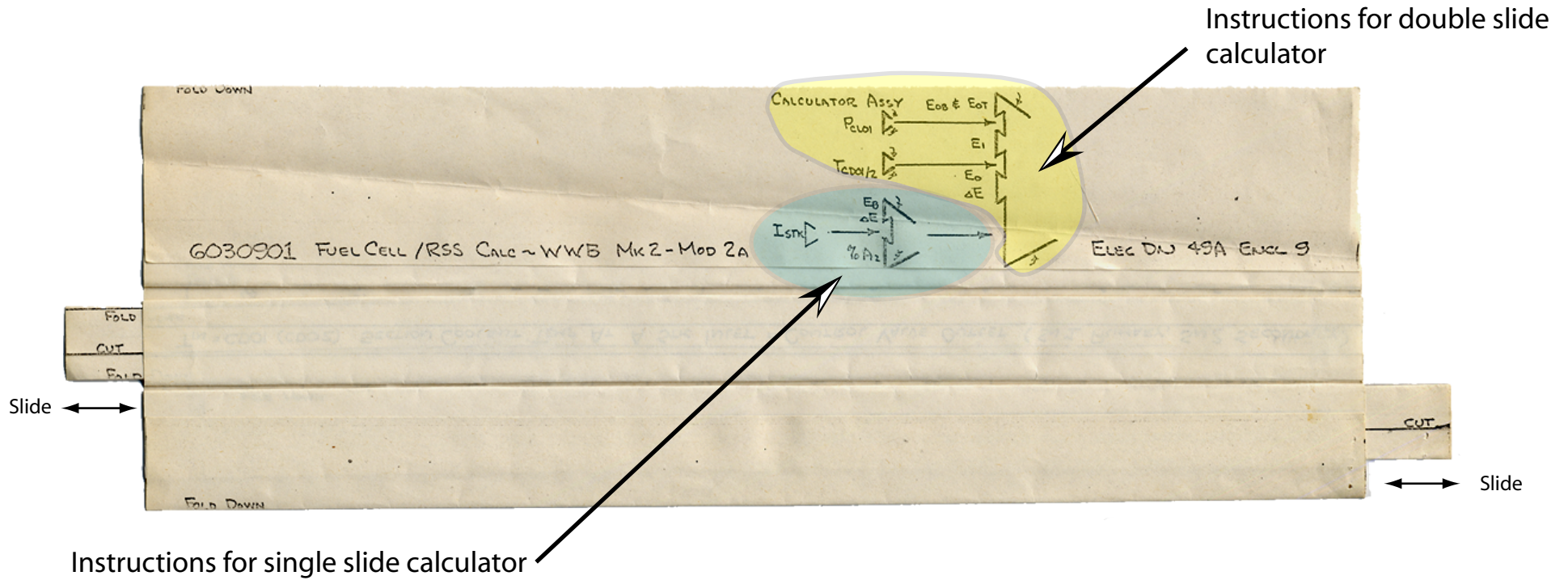


The slide rules were assembled from sheets of paper, cut and folded to produce a double slide device (above) and a single slide device (below).



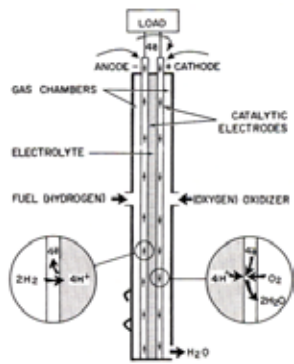
Gemini Fuel Cell/RSS Calculator (*Slide Rule*)-(continued)

Assembly Instructions



Gemini Fuel Cell/RSS Calculator (Slide Rule)- (continued)

Miscellaneous Fuel Cell and Gemini System Information



Solid polymer electrolyte fuel cell



Single cell assembly



Stack of 32 fuel cells



Fuel cell battery Section- (integrates 3 fuel cell stacks)

Gemini 5 Adapter (Long Mission)

