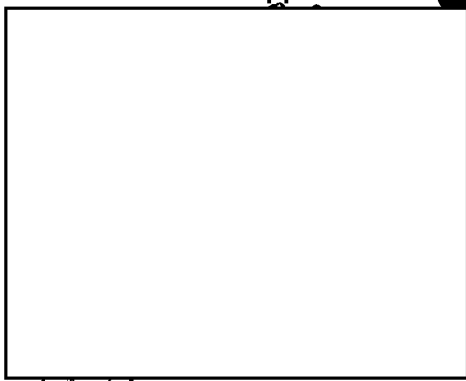


STAT

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July 10, 1964

DIGITAL READOUT COUNTER



[redacted] has received the contracts for the new counter systems and has started work. The schedule is as follows:

ITEM	RECEIVED CONTRACT	SCHEDULED COMPLETION
One 4-axis system	6/2/64	10/1/64
Three 2-axis systems	5/20/64	1 on 8/15/64 1 on 8/30/64 1 on 9/15/64
Spares for previous two 2-axis systems	6/10/64	8/15/64

The three 2-axis systems will be identical to the previous 2-axis system for the [redacted] reading head. On both the 2-axis systems already delivered, there has been some mismatch with respect to [redacted] input impedance. [redacted] has been requested to change their input amplifier board, which they did, and supplied new boards.

On the new counters now in work, [redacted] would like to avoid any input impedance mismatch. [redacted] has discussed this in detail with [redacted] by telephone and has received verbal direction from John. [redacted] however, would like written clarification of the input impedance requirements. He needs this no later than 1 August 1964. The clarification [redacted] wants is:

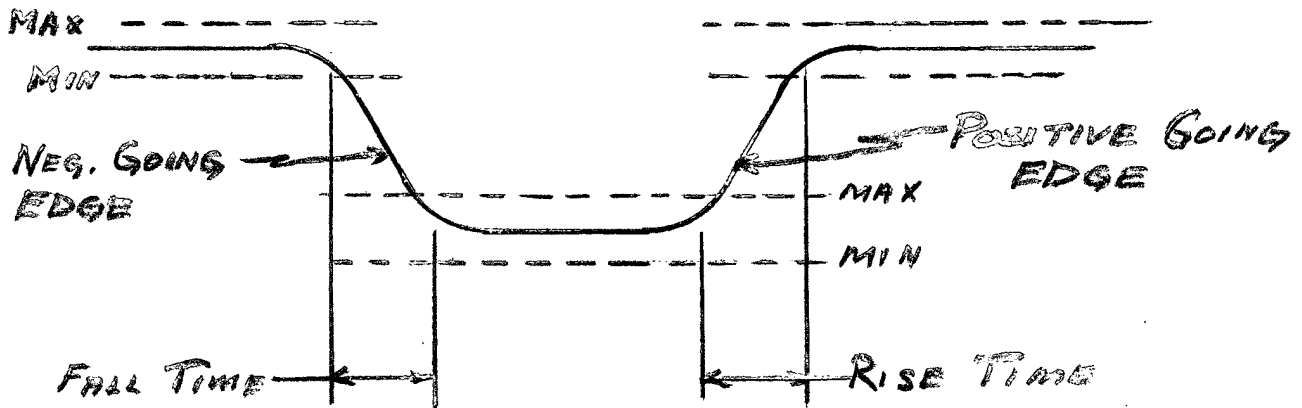
1. Define the input pulse (which is the pulse that defines a count). This is the pulse from the sensor to the [redacted] input amplifier.
 - a. Min/max voltage level for a 0.

Declass Review by NGA.

Digital Readout Counter

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- b. Min/max voltage level for a 1.
 c. Pulse fall time and pulse rise time.
 d. [] would prefer to have a pulse sketch which is unambiguous. Such as:



2. Sensor source impedance.
3. Is any accessory power to be provided to the sensor []
4. Shall the count trigger on the negative going or positive going edge of the pulse?
5. Interconnecting cable length required for each system. [] is holding off on the cables till the latter part of the manufacturing cycle, but he must start them by 1 August. If he doesn't hear by then, he plans to proceed on the basis of furnishing 10 ft long cables.

Testing of the first 2-axis system is scheduled for the period of August 3 to August 14. I believe it would be beneficial if [] could schedule a visit to [] during the week of 10-14 August, or immediately thereafter.

[] finally received cost information from his accounting department on the previous two 2-axis systems already delivered. Their cost, through G&A but not including fee, was []. When compared to a contract sales price of [] it shows a sizable loss. When [] heard that [] lost money on the job, he requested [] advise him how much. [] has not yet made any formal overtures regarding the loss. In fact, they have not decided whether or not they should.

Digital Readout Counter

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STAT At request of [redacted] I advised [redacted] of
maintenance was scheduling a visit to [redacted] on July 24 to
discuss counter electronics with [redacted]
said that would be O.K. but he did not know [redacted]
vacation schedule. If there is a conflict, [redacted] will
advise us. STAT
STAT
STAT
STAT

STAT [redacted] indicated he knew about the problem with the new
input amplifier card he had sent to [redacted] He
said it could be easily corrected by adjusting the bias.
He has instructed and authroized [redacted] to correct
the bias which should eliminate the trouble. STAT
STAT
STAT

