PULSE TRANSFORMER REQUIREMENTS

1. Operating pulse output voltage _____ kV

2. Load resistance at operating voltage _____ Ω

3. Load capacitance (actual measured value in surroundings and dielectric in which load is to be used) _____ pF

4. Flat-top length _____ µS at _____ % voltage amplitude

5. Rise-time _____ µS from 10% to 90% voltage amplitude, assuming a voltage step-function resistive source

6. Overshoot _____ % (same assumptions as item 5)

7. Operating repetition rate _____ pps at _____ µS and _____ kV

8. Primary to secondary voltage ratio _____ : _____

9. G Matched source and load impedance, or Primary source impedance _____ Ω

10. Polarity of primary and secondary voltages: G same G opposite G interchangeable

11. Droop of flat top _____ %

12. Secondary low end insulation to core and base-plate (volts):
   ac _____ dc _____ pulse _____ G none

13. Primary low end insulation to core and base-plate (volts):
   ac _____ dc _____ pulse _____ G none

14. Type of secondary winding: G Monofilar G Bifilar
   Current through bifilar windings _____ A
   Voltage between bifilar windings _____ V

15. Accessories:
   G Filament transformer (if bifilar)
   G Current monitor
   G Voltage divider

16. Other specifications: _____________________________________________________________