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THE K800 ANODE P.S. II

Refer to R.F. Note #86, of 8/20/82 which detailed the status of the Aydin P.S. By 1/10/83 they informed us that they had corrected all the problems mentioned in that note and were prepared for us to witness the Phase II tests.

On 17, 18, 19 of Jan. 1983 I visited Aydin to witness these tests. They were able to acquire a hipotter capable of providing 30 KV at 60 ma to the output of the supply. The one hour hi pot test of specification 4.1.1 was successfully performed.

Aydin provided documentation showing that the crowbars passed their test and several crowbar events at 20 KV were witnessed by me. Aydin also provided documentation that the full current test of specification 4.1.2 had been run on 9/22/82 and the temperature rise was within specs.

Aydin supplied me with a set of schematics but had not as yet made reproducible copies of them, nor had they written the instruction manual. Thus item 5.0; a,b,c,d of the specifications has not been executed. Otherwise the supply is complete and ready for shipment.

Because of the high impedance of Aydin's 13KV transformer Aydin is incapable of making the "turn on overshoot" test of Specification 3.5 nor are they able to test whether or not the P.S. can survive crowbars if the input impedance is what we will have here. The vacuum switches on the primary side of the VVT take 4 cycles to open and it won't be until we make the Phase III tests at MSU that we will be able to learn if this is fast enough.