

Subject: Re: NPS magnet power requirements
From: Steve Lassiter <lassiter@jlab.org>
Date: 5/1/2018 3:57 PM
To: Jack Segal <segal@jlab.org>

Hi Jack,

Check with Bogdan as he is the one that specified the magnet.
What I could find is on drawings 67508-00003 and 67508-00005.

Main coil is 120 turns 15turnsx8pancakes of Luvatta #6888 copper. 18mmx12mm with a 8mm diameter cooling hole and 1mm radius on corners. Length1km.
Current is 1070A. Measured resistance of the coil was less than 0.01Ohms using a fluke87 III. I calculated 1e-3 ohms using ofhc Cu10200.

Correct coils:
72 turns 4 pancakes of 18 turns. 220A Luvatta #8195 copper. 9.07mmx8mm with a 4.77mm diamter cooling hole. Length=92m. Hi pot tested to 1070V.

Steven

From: "Jack Segal" <segal@jlab.org>
To: "Steve Lassiter" <lassiter@jlab.org>, "Mike Fowler" <fowler@jlab.org>
Sent: Tuesday, May 1, 2018 2:51:57 PM
Subject: NPS magnet power requirements

Can you guys send me the specifications on the magnet so I can find a power supply for it? How much current, voltage, nominal resistance, that kind of thing.

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