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Increasing the H- output current and Reducing Performance Variations of the SNS H- Source

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The SNS H- ion sources deliver the required ˜50 mA with practically perfect availability for the entire ˜4-months production cycles. The source performance varies from cycle to cycle but the required output current can be easily reached by adjusting the 2 MHz power. However, in about 10 years the SNS H- source is required to deliver routinely ˜60 mA for the second target station. While this has been demonstrated several years ago, the routine production of 60 mA needs more margins to deal with occasional deficiencies. The plans and the current status of those efforts will be presented.

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