

# Running Condition P3 - Switchyard 120

November 27, 2019

Area RSO

Nino Chelidze

**Mode of Operation** Beam to Switchyard Absorber

Beam Limits	Beam Energy	ASE Limit	Operating Limit
	120 GeV	1.03 E16 protons/hr	6.00 E14 protons/hr

**Critical Devices** S:HP3US & S:HP3DS**Enclosures Protected** Transfer Hall & Enclosures B, C, D, E, J, G1 Stub**Preferred** Intensity is monitored via I:BEAM sampled on the \$39 or S:SYDINT**Monitoring Devices\*** Intensity to the SY Absorber is monitored via S:SYDINT (see Operational Comments)

\*Other methods of monitoring intensity may be used.

## Requirements

**Access Devices** S:HP3US and S:HP3DS must be disabled to access the enclosures protected.**Cool Off Period** none**Special Interlocks** The CDC Inputs including failure mode devices may all be found on the Safety System Status pages.**Special Concerns** Any work performed on critical devices or obtaining a critical device key requires prior RSO approval.**Gates, Fencing and Passive Shielding** There is no access to radiologically fenced areas without prior RSO approval.**Requirements** Shielding, fencing and posting are in accordance with the following shielding assessment documents:  
2017 "P3 to Switchyard Absorber Incremental Shielding Assessment"  
2019 "Addendum to P3 to Switchyard Absorber Incremental Shielding Assessment for IERC"

Assigned RSO approval also signifies that all necessary Interlock Tests have been completed and Removable Shielding is installed.

Ops. Dept. Head Approval *Todd Little 11/27/2019*Assigned RSO Approval *N. Chelidze*Sys. Dept. Head Approval *Nino Chelidze 11/27/19*AD Head Approval *Mark By 11/27/2019*

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## Operational Comments

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MCR must be appropriately staffed according to the Accelerator Safety Envelope.

The sustained beam intensity to the Absorber should not exceed 6.00 E14 protons/hour due to thermal considerations of the Absorber. Protons per pulse may change depending on the rep rate.

It is also acceptable to transport beam to the Switchyard Absorber using single turn extraction.



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## Operator Signatures

Crew Chiefs

Crew A

Crew B

Crew C

Crew D

Crew E

Other