NLCTA

BEAM AUTHORIZATION SHEET

EXPERIMENTS: **NLCTA** DATE OF ISSUE: June 6, 2005

OFFICIAL NLCTA COPY	RP COPY	ADSO COPY	SO COPY

FROM: 6/06/05 **TIME:** 00:00
TO: 11/30/05 **TIME:** 24:00

ALL RF PRE-RUNNING CONDITIONS MUST BE SIGNED OFF BEFORE RUNNING RF IN THE NLCTA.

All **RF** Pre-Running Conditions have been signed off:

OIC:_____ Date/Time: _____

ALL PRE-RUNNING CONDITIONS MUST BE SIGNED OFF BEFORE RUNNING BEAM IN THE NLCTA.

All Pre-Running Conditions have been signed off:

OIC:_____ Date/Time: _____

All pertinent Radiation Safety Work Control Forms that affect this BAS have been reviewed:

ADSO:_____ OIC: _____

NOTE: • This BAS remains in effect unless voided by the Accelerator Safety Office, Radiation Protection or the NLCTA Safety Officer.

APPROVAL

RADIATION PROTECTION _____H. Khater/H. Vincke

ACCEL. DEPT. SAFETY OFFICE _____M. Saleski / P. Miller

NLCTA (S.O/O.M.) _____K. Jobe/M. Ross

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CHECK-OFF BOXES FOR REVIEW OF BAS: READ *MODIFICATIONS* AND *RUNNING CONDITIONS*

TIME	6/06	6/07	6/08	6/09	6/10	6/11	6/12
00:00							
08:00							
16:00							
	OIC	OIC	OIC	OIC	OIC	OIC	OIC

TIME	6/13	6/14	6/15	6/16	6/17	6/18	6/19	
00								SO
08								
16								
	OIC	OIC	OIC	OIC	OIC	OIC	OIC	

TIME	6/20	6/21	6/22	6/23	6/24	6/25	6/26
00:00							
08:00							
16:00							
	OIC	OIC	OIC	OIC	OIC	OIC	OIC

TIME	6/27	6/28	6/29	6/30	7/01	7/02	7/03	
00								SO
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16								
	OIC	OIC	OIC	OIC	OIC	OIC	OIC	

TIME	7/04	7/05	7/06	7/07	7/08	7/09	7/10
00:00							
08:00							
16:00							
	OIC	OIC	OIC	OIC	OIC	OIC	OIC

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CHECK-OFF BOXES FOR REVIEW OF BAS: READ *MODIFICATIONS* AND *RUNNING CONDITIONS*

TIME	7/11	7/12	7/13	7/14	7/15	7/16	7/17	
00								SO
08								
16								
	OIC	OIC	OIC	OIC	OIC	OIC	OIC	

TIME	7/18	7/19	7/20	7/21	7/22	7/23	7/24
00:00							
08:00							
16:00							
	OIC	OIC	OIC	OIC	OIC	OIC	OIC

TIME	7/25	7/26	7/27	7/28	7/29	7/30	7/31	
00								SO
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16								
	OIC	OIC	OIC	OIC	OIC	OIC	OIC	

TIME	8/01	8/02	8/03	8/04	8/05	8/06	8/07
00:00							
08:00							
16:00							
	OIC	OIC	OIC	OIC	OIC	OIC	OIC

TIME	8/08	8/09	8/10	8/11	8/12	8/13	8/14	
00								SO
08								
16								
	OIC	OIC	OIC	OIC	OIC	OIC	OIC	

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CHECK-OFF BOXES FOR REVIEW OF BAS: READ *MODIFICATIONS* AND *RUNNING CONDITIONS*

TIME	8/15	8/16	8/17	8/18	8/19	8/20	8/21
00:00							
08:00							
16:00							
	OIC	OIC	OIC	OIC	OIC	OIC	OIC

TIME	8/22	8/23	8/24	8/25	8/26	8/27	8/28	
00								SO
08								
16								
	OIC	OIC	OIC	OIC	OIC	OIC	OIC	

TIME	8/29	8/30	8/31	9/01	9/02	9/03	9/04
00:00							
08:00							
16:00							
	OIC	OIC	OIC	OIC	OIC	OIC	OIC

TIME	9/05	9/06	9/07	9/08	9/09	9/10	9/11	
00								SO
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16								
	OIC	OIC	OIC	OIC	OIC	OIC	OIC	

TIME	9/12	9/13	9/14	9/15	9/16	9/17	9/18	
00								SO
08								
16								
	OIC	OIC	OIC	OIC	OIC	OIC	OIC	

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CHECK-OFF BOXES FOR REVIEW OF BAS: READ *MODIFICATIONS* AND *RUNNING CONDITIONS*

TIME	9/19	9/20	9/21	9/22	9/23	9/24	9/25
00:00							
08:00							
16:00							
	OIC	OIC	OIC	OIC	OIC	OIC	OIC

TIME	9/26	9/27	9/28	9/29	9/30	10/01	10/02	
00								SO
08								
16								
	OIC	OIC	OIC	OIC	OIC	OIC	OIC	

TIME	10/03	10/04	10/05	10/06	10/07	10/08	10/09
00:00							
08:00							
16:00							
	OIC	OIC	OIC	OIC	OIC	OIC	OIC

TIME	10/10	10/11	10/12	10/13	10/14	10/15	10/16	
00								SO
08								
16								
	OIC	OIC	OIC	OIC	OIC	OIC	OIC	

TIME	10/17	10/18	10/19	10/20	10/21	10/22	10/23	
00								SO
08								
16								
	OIC	OIC	OIC	OIC	OIC	OIC	OIC	

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CHECK-OFF BOXES FOR REVIEW OF BAS: READ *MODIFICATIONS* AND *RUNNING CONDITIONS*

TIME	10/24	10/25	10/26	10/27	10/28	10/29	10/30
00:00							
08:00							
16:00							
	OIC	OIC	OIC	OIC	OIC	OIC	OIC

TIME	10/31	11/01	11/02	11/03	11/04	11/05	11/06	
00								SO
08								
16								
	OIC	OIC	OIC	OIC	OIC	OIC	OIC	

TIME	11/07	11/08	11/09	11/10	11/11	11/12	11/13
00:00							
08:00							
16:00							
	OIC	OIC	OIC	OIC	OIC	OIC	OIC

TIME	11/14	11/15	11/16	11/17	11/18	11/19	11/20	
00								SO
08								
16								
	OIC	OIC	OIC	OIC	OIC	OIC	OIC	

TIME	11/21	11/22	11/23	11/24	11/25	11/26	11/27	
00								SO
08								
16								
	OIC	OIC	OIC	OIC	OIC	OIC	OIC	

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BEAM AUTHORIZATION SHEET

EXPERIMENTS: **NLCTA** DATE OF ISSUE: June 6, 2005

CHECK-OFF BOXES FOR REVIEW OF BAS: READ *MODIFICATIONS* AND *RUNNING CONDITIONS*

TIME	11/28	11/29	11/30	---	---	---	---
00:00							
08:00							
16:00							
	OIC	OIC	OIC	OIC	OIC	OIC	OIC

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BEAM AUTHORIZATION SHEET

EXPERIMENTS: **NLCTA** DATE OF ISSUE: June 6, 2005

MODIFICATIONS TO THIS BAS

ITEM	DATE /TIME	APPROVALS			CHANGES OR ADDITIONS*
		RP	ADSO	OIC/SO	

* Items changed must be entirely rewritten and a single line drawn through items changed.

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EXPERIMENTS: **NLCTA** DATE OF ISSUE: June 6, 2005

ALLOWABLE BEAM TYPE: Electrons

ITEM	RUNNING CONDITIONS
	General
1	The OIC must confirm the integrity of all PPS components and radiation safety items in the NLCTA per the "Weekly NLCTA Checklist" procedure [02-03-12] and "PPS Interlock Checklist" procedure [02-03-03].
2	The OIC must review the appropriate Radiation Safety Work Control Forms after work on radiation safety items are performed.
3	BSONLC 1, 2, 3, 5, 6, 7, and 8 must be set to trip at 10 mrem/hr, BSONLC 4 must be set to trip at 4 mrem/hr above the internal source level, BSONLC 9 - 10 must be set to trip at 100 mrem/hr. BSONLC 1 - 10 must remain active at all times.
4	Instantaneous beam voltage limit for all X-band klystrons (including maximum overshoot) is 450 kV.
5	Maximum pulse repletion rate for all X-band klystrons is 60 PPS.
6	Maximum allowable power output for the 8-Pack SLED is 600 MW.
	Unattended Operation (without beam)
7	When an NLCTA operator is not present: a) The Gun H.V. must remain locked off and b) The NLCTA Daily Inspection Checklist for Unattended Operation Without Beam (02-03-11) must be completed each weekday. c) The 8-pack modulator power supply is turned off.
	Operation with Beam
8	The Protection Ion Chambers IONC 1 through 8 must remain active at all times. The trip levels (set to 50nA or less) must be checked per the "Beam Containment Daily Checks" procedure [02-03-07].
9	Performance of the circuit limiting the beam power must be checked per the "Beam Containment Daily Checks" procedure [02-03-07].
10	Beam operation in the NLCTA is limited to 10 Hz or less. The rep rate limiting electronics must be checked as per the "Beam Containment Daily Checks" procedure [02-03-07].
11	The maximum allowable energy (unloaded) gain in NLCTA is 650 MeV.

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ITEM	DATE/ TIME	CKD. BY	OIC ACKN.	INITIAL CHECKOUT
1				Test that PICs respond to beam after beam is established.

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NOTE: The stopper enable key may not be released until all pre-running conditions have been satisfied, except as required by PPS certification.

ITEM	DATE TIME	CKD. BY	OIC ACKN.	*RF* PRE-RUNNING CONDITIONS
1*				BSOICs must be calibrated and trip circuits checked per "NLCTA BSOIC Certification Checklist" [02-03-05-02].
2				Location of BSOICs must be checked by Radiation Protection.
3				The integrity of NLCTA enclosure (walls & roof) must be verified by Radiation Protection (note: the roof penetrations no longer are required to be shielded).
4				The roof blocks must be chained and locked with an ADSO padlock.
5				The Radiation Protection penetration (R.P. on map) must be filled and locked with an ADSO padlock.
6*				PPS must be certified by an approved member of the PPS group per procedures: - PPS NLCTA Initial Acceptance Interlock Test Procedure [18-29-05]. - PPS NLCTA Initial Acceptance Electrical Hazard Test Procedure [18-29-06]. - PPS NLCTA Initial Acceptance Radiation Test Procedure [18-29-07].
7				PPS interlock check per procedure [02-03-03-04].
8				The roof area is posted as a Radiation Area. A sign stating *"For access to roof, please contact NLCTA OIC (x5482)"* must be posted at the top of the stairs to the roof area.
9				Verify that access to E163 beamline penetration is locked with an ADSO lock.
10				Verify that that the 8-Pack waveguide (located on the roof) to the NLCTA housing is terminated and locked with an ADSO lock.

* Valid for one year from the date shown. No need to recheck.

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ITEM	DATE TIME	CKD. BY	OIC ACKN.	*BEAM* PRE-RUNNING CONDITIONS
1*				BCS must be certified per the "NLCTA BCS PIC Pre-run Checkout" procedure [18-08-80].
2				NLCTA gun deck electronics must be locked with an ADSO Safety Padlock.
3				Protection collimators at the first chicane bend (A on map) and at the spectrometer bend (B) must be in place.
4				The Faraday Cup must be disabled and locked out with an ADSO lock.
5				All unused roof penetrations into the accelerator area of the accelerator enclosure are blocked.

* Valid for one year from the date shown. No need to recheck.

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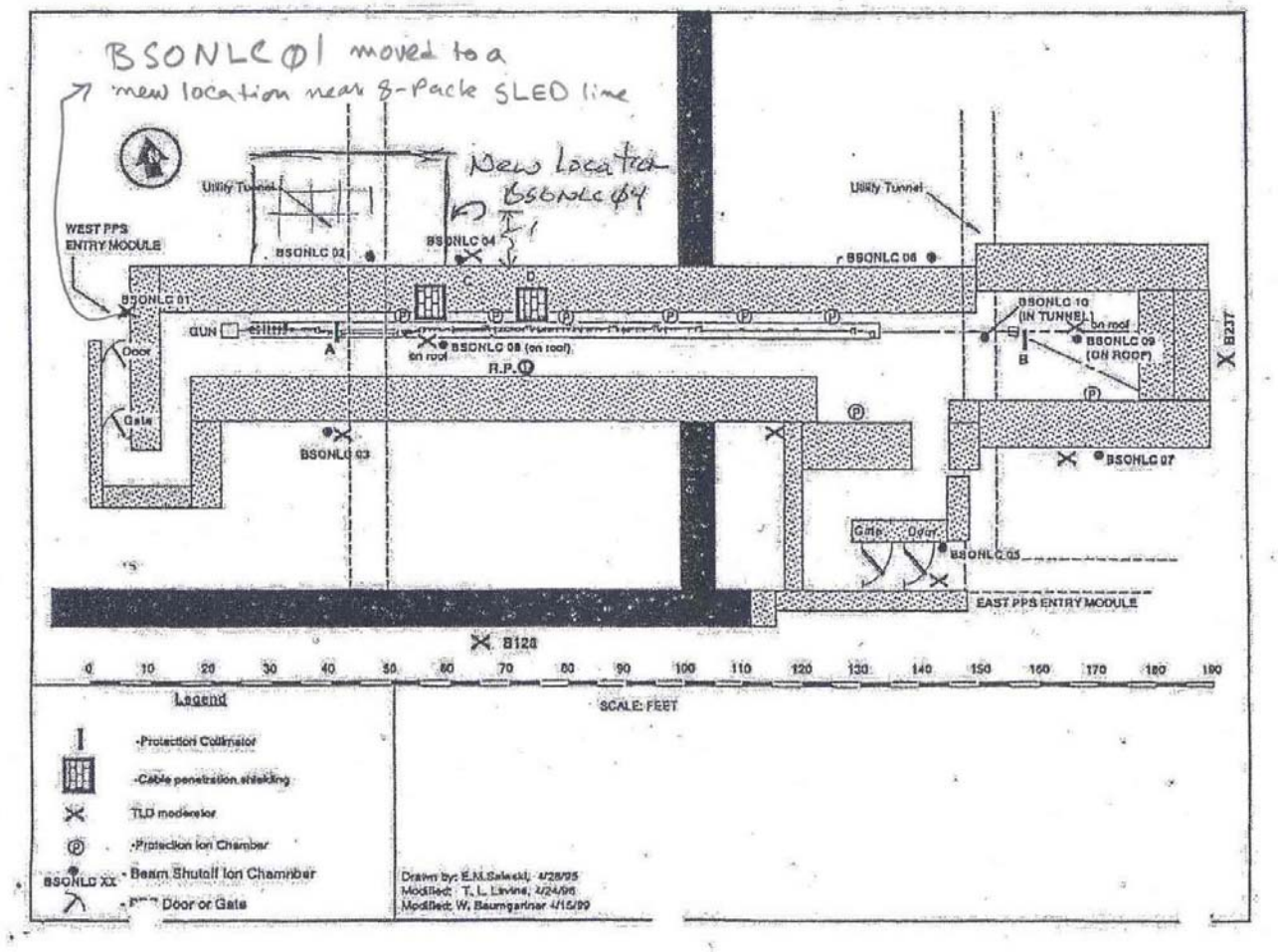

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