NLCTA

BEAM AUTHORIZATION SHEET

EXPERIMENTS: **NLCTA** DATE OF ISSUE: November 1, 2000

OFFICIAL NLCTA COPY o	RP COPY o	ADSO COPY o	SO COPY o	OHP COPY o

FROM: 11/01/00 **TIME:** 00:00
TO: 04/30/01 **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:

OE:_____ Date/Time: _____

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

All Pre-Running Conditions have been signed off:

OE:_____ Date/Time: _____

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

ADSO:_____ OE: _____

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

APPROVAL

RADIATION PHYSICS _____S. Roesler / W. R. Nelson

NLCTA

BEAM AUTHORIZATION SHEET

EXPERIMENTS: **NLCTA** DATE OF ISSUE: November 1, 2000

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

NLCTA (S.O/O.E.) _____K. Jobe / W. Baumgartner

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

TIME			11/01	11/02	11/03	11/04	11/05	
00	-	-						SO
08	-	-						
16	-	-						
	OIC	OIC	OIC	OIC	OIC	OIC	OIC	

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

TIME	11/13	11/14	11/15	11/16	11/17	11/18	11/19	
00								SO
08								
16								
	OIC	OIC	OIC	OIC	OIC	OIC	OIC	

TIME	11/20	11/21	11/22	11/23	11/24	11/25	11/26
00:00							
08:00							

NLCTA

BEAM AUTHORIZATION SHEET

EXPERIMENTS: **NLCTA** DATE OF ISSUE: November 1, 2000

16:00							
	OIC	OIC	OIC	OIC	OIC	OIC	OIC

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

TIME	11/27	11/28	11/29	11/30	12/01	12/02	12/03	
00								SO
08								
16								
	OIC	OIC	OIC	OIC	OIC	OIC	OIC	

TIME	12/04	12/05	12/06	12/07	12/08	12/09	12/10
00:00							
08:00							
16:00							
	OIC	OIC	OIC	OIC	OIC	OIC	OIC

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

NLCTA

BEAM AUTHORIZATION SHEET

EXPERIMENTS: **NLCTA** DATE OF ISSUE: November 1, 2000

TIME	12/18	12/19	12/20	12/21	12/22	12/23	12/24
00:00							
08:00							
16:00							
	OIC	OIC	OIC	OIC	OIC	OIC	OIC

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

TIME	12/25	12/26	12/27	12/28	12/29	12/30	12/31	
00								SO
08								
16								
	OIC	OIC	OIC	OIC	OIC	OIC	OIC	

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

TIME	01/08	01/09	01/10	01/11	01/12	01/13	01/14	
00								SO
08								
16								

NLCTA

BEAM AUTHORIZATION SHEET

EXPERIMENTS: **NLCTA** DATE OF ISSUE: November 1, 2000

OIC	OIC	OIC	OIC	OIC	OIC	OIC

TIME	01/15	01/16	01/17	01/18	01/19	01/20	01/21
00:00							
08:00							
16:00							
	OIC	OIC	OIC	OIC	OIC	OIC	OIC

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

TIME	01/22	01/23	01/24	01/25	01/26	01/27	01/28	
00								SO
08								
16								
	OIC	OIC	OIC	OIC	OIC	OIC	OIC	

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

NLCTA

BEAM AUTHORIZATION SHEET

EXPERIMENTS: **NLCTA** DATE OF ISSUE: November 1, 2000

TIME	02/05	02/06	02/07	02/08	02/09	02/10	02/11	
00								SO
08								
16								
	OIC	OIC	OIC	OIC	OIC	OIC	OIC	

TIME	02/12	02/13	02/14	02/15	02/16	02/17	02/18
00:00							
08:00							
16:00							
	OIC	OIC	OIC	OIC	OIC	OIC	OIC

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

TIME	02/19	02/20	02/21	02/22	02/23	02/24	02/25	
00								SO
08								
16								
	OIC	OIC	OIC	OIC	OIC	OIC	OIC	

TIME	02/26	02/27	02/28	03/01	03/02	03/03	03/04
00:00							

NLCTA

BEAM AUTHORIZATION SHEET

EXPERIMENTS: **NLCTA** DATE OF ISSUE: November 1, 2000

08:00							
16:00							
	OIC	OIC	OIC	OIC	OIC	OIC	OIC

TIME	03/05	03/06	03/07	03/08	03/09	03/10	03/11	
00								SO
08								
16								
	OIC	OIC	OIC	OIC	OIC	OIC	OIC	

TIME	03/12	03/13	03/14	03/15	03/16	03/17	03/18
00:00							
08:00							
16:00							
	OIC	OIC	OIC	OIC	OIC	OIC	OIC

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

TIME	03/19	03/20	03/21	03/22	03/23	03/24	03/25	
00								SO
08								
16								

NLCTA

BEAM AUTHORIZATION SHEET

EXPERIMENTS: **NLCTA** DATE OF ISSUE: November 1, 2000

	OIC	OIC	OIC	OIC	OIC	OIC	OIC

TIME	03/26	03/27	03/28	03/29	03/30	03/31	04/01
00:00							
08:00							
16:00							
	OIC	OIC	OIC	OIC	OIC	OIC	OIC

TIME	04/02	04/03	04/04	04/05	04/06	04/07	04/08	
00								SO
08								
16								
	OIC	OIC	OIC	OIC	OIC	OIC	OIC	

TIME	04/09	04/10	04/11	04/12	04/13	04/14	04/15
00:00							
08:00							
16:00							
	OIC	OIC	OIC	OIC	OIC	OIC	OIC

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

NLCTA

BEAM AUTHORIZATION SHEET

EXPERIMENTS: **NLCTA** DATE OF ISSUE: November 1, 2000

TIME	04/16	04/17	04/18	04/19	04/20	04/21	04/22	
00								SO
08								
16								
	OIC	OIC	OIC	OIC	OIC	OIC	OIC	

TIME	04/23	04/24	04/25	04/26	04/27	04/28	04/29
00:00							
08:00							
16:00							
	OIC	OIC	OIC	OIC	OIC	OIC	OIC

TIME	04/30
00	
08	
16	
	OIC

NLCTA

BEAM AUTHORIZATION SHEET

EXPERIMENTS: **NLCTA** DATE OF ISSUE: November 1, 2000

MODIFICATIONS TO THIS BAS

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

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

NLCTA

BEAM AUTHORIZATION SHEET

EXPERIMENTS: **NLCTA** DATE OF ISSUE: November 1, 2000

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 "Safety Inspection Checklist" procedure [02-03-08] 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 - 8 must be set to trip at 10 mrem/hr, BSONLC 9 - 10 must be set to trip at 100 mrem/hr. BSONLC 1 - 10 must remain active at all times.
	Unattended Operation (without beam)
4	When an NLCTA operator is not present: a) the Gun H.V. must remain locked off and b) an *NLCTA Daily Inspection Checklist for Unattended Operation Without Beam* (02-03-11) must be completed each day.
	Operation With Beam
5	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]
6	Performance of the circuit limiting the beam power must be checked per the "Beam Containment Daily Checks" procedure [02-03-07]
7	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]
8	The maximum allowable energy (unloaded) gain in NLCTA is 650 MeV.

NLCTA

BEAM AUTHORIZATION SHEET

EXPERIMENTS: **NLCTA** DATE OF ISSUE: November 1, 2000

ITEM	DATE/ TIME	CKD. BY	OIC ACKN.	INITIAL CHECKOUT
1				Test that PICs respond to beam after beam is established.
2				Radiation surveys outside and on top of the NLCTA must be performed if and when the energy of the beam gets above 200 MeV.

NLCTA

BEAM AUTHORIZATION SHEET

EXPERIMENTS: **NLCTA** DATE OF ISSUE: November 1, 2000

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 Procedure (with source)" [02-03-05]
2				Location of BSOICs must be checked by Radiation Physics
3				The integrity of NLCTA enclosure (walls & roof) must be verified by Radiation Physics (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 Physics 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: -NLCTA Interlock Certification (PPS) [18-29-01] -NLCTA Electrical Hazards Certification [18-29-02] -NLCTA Radiation Certification [18-29-03].
7				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.

NLCTA

BEAM AUTHORIZATION SHEET

EXPERIMENTS: **NLCTA** DATE OF ISSUE: November 1, 2000

ITEM	DATE TIME	CKD. BY	OIC ACKN.	*BEAM* PRE-RUNNING CONDITIONS
1				BCS must be certified per "NLCTA BCS PIC Pre-Run Checkout" procedure [18-07-49].
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.

NLCTA

BEAM AUTHORIZATION SHEET

EXPERIMENTS: **NLCTA** DATE OF ISSUE: November 1, 2000

[Last Page]