NCSX Conceptual Design Cost Estimate Summary Form (Attachment 1a)

SUMMARY DESCRIPTION

WBS Number: 421	Title: C-Site AC/DC Converters
Originator: Raki Ramakrishnan	

Description

No work in this area is required for the fabrication project. Any modifications to the existing equipment will be funded by PPPL infrastructure improvement funds.

<u>Description of Existing Equipment/Facilities to be Reused</u>: These power supplies were originally purchased for PBX-M duty. They were manufactured by the Robicon Corporation and were first put in service in 1987. They consist of 6-pulse bridges connected in parallel with an interphase transformer. The ratings are summarized as follows:

]	<u>Parameter</u>	<u>Value</u>	<u>Units</u>
• No L	oad Avg. DC Voltage	300.0	volt
Nom	inal DC Current	5.0	kA
Nom	inal Pulse ESW	1.5	sec
Nom	inal Pulse Repetition Period	80.0	sec
 Maxi 	mum Continuous DC Current	1.25	kA.

<u>Description of Major Modifications Required to Existing Equipment/Facilities</u>: No major modifications are needed other than routine maintenance to reactivate the existing C-site AC/DC converters. Possible minor modifications may be needed to the control interface.

Date: 9/15/03