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

**SUMMARY DESCRIPTION**

| **WBS Number: 431** | **Title: C-Site DC Systems** |
|---|---|
| **Originator: Raki Ramakrishnan** | |

**Description**

This WBS element consists of the effort to design and reconfigure existing experimental C-Site DC systems. For the main coils (Modular, PF, TF), 1000MCM power cables coming across from D-site will be received in the existing PLT OH/EF building, and spliced to existing 1000MCM cables which connect to the Disconnect/Link area in the C-site MG basement. The existing switches and bus bar carry the current into the Test Cell. From the stubs penetrating the floor, new 1000MCM cables will be connected to the coil circuit terminals.

All the components to be used for NCSX Power system which includes a) 1000 MCM cable runs b) DC Bus c) Bus stubs coming into the Test Cell shall be retained for use by WBS 4.

Description of Existing Equipment/Facilities to be Reused: Existing cable run from PLT OH/EF building to Disconnect/Link Area. Existing motor operated disconnects and bus bar up to and including stubs which make penetration into the Test Cell.

Description of Major Modifications Required to Existing Equipment/Facilities: Some re-routing and splicing of existing cables within the OH/EF building. Some re-routing and splicing of existing cables from the ESAT building to the Test Cell.

**Date: 9/15/03**