Description, building startup response

ISLAND TEST
Island Test

• Island test conducted 19 July 2012
• Required by DOE Perfect Power Project
• 6:00 AM – Start the two 4 MW natural gas fired combustion turbines
• 6:15 AM – Disconnect the two ComEd transformers supplying the North Substation
• 6:16 AM – Connect the North-South Tie
• 6:18 AM – Connect the Loop 3 feeders
• 6:19 AM – Connect the Loop 1 feeders
• 6:23 AM – Connect the Loop 2 feeders
Island Test: E1 208V Transformer

Current Magnitude Curve (E1-500K-TR#1-IA)

6:18 AM

6:21 AM
Island Test: Stuart 480V Transf.
Load Pickup: Stuart 480V Transf.

In-rush Current Magnitude Curve (SB-PWR-1000K-IA)

Current(A)

0  20  40  60  80  100  120  140  160  180  200

Time(second)

0  50  100  150  200  250  300

6:28 AM  6:33 AM
Island Test: MTCC 480V Transf.
Load Pickup: MTCC 480V Transf.

In-rush Current Magnitude Curve (MC-1500K-TR-IA)

Current (A) vs Time (second)

6:30 AM to 6:35 AM