

Students:



ES bus and BOP bus:

- Phase Voltages
- Sequence Bus Currents



Faculty Mentor and Contact: Dr. Zia Salami zsalami@uncc.edu

Open-Phase Study in Nuclear Power Plant Joel Mathewson - jmathew9@uncc.edu Mario Poujol – mpoujol@uncc.edu

Figure 3. Case 1, Open-Phase on C at t=0.5 s for ES Sequence Currents



Lee College of Engineering

0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9



Volodymyr Habovda – vhabovda@uncc.edu



C at t=0.5 s for ES Sequence Currents



t=0.5 s for BOP Phase Voltages

5 2 2.5 3 3.5 time (s) Figure 6. Case 4, Open-Phase on B &

C at t=0.5 s for BOP Phase Voltages

Departments of Electrical and Computer Engineering

A Phase B Phase C Phase

ercent Loading	Engineered Safeguard Bus	Balance of Plant Bus
wer Operation	20%	100%
ng Outage	20%	20%
cident	100%	80%
m Loading	10%	10%

Percent Loading	Engineered Safeguard Bus	Balance of Plant Bus
Start on ES	80%	80%
h Motor Start on ES	10%	10%
h Motor Start on BOP	10%	10%



Industry Supporter: Mr. Lee Easter



Students:



Faculty Mentor and Contact: Dr. Zia Salami zsalami@uncc.edu

Open-Phase Study in Nuclear Power Plant Joel Mathewson - jmathew9@uncc.edu



Lee College of Engineering

Departments of Electrical and Computer Engineering





.1619MVAR

Industry Supporter: Mr. Lee Easter



Students:



Faculty Mentor and Contact: Dr. Zia Salami zsalami@uncc.edu

Open-Phase Study in Nuclear Power Plant Joel Mathewson - jmathew9@uncc.edu

Lee College of Engineering Departments of Electrical and Computer Engineering





Mario Poujol – mpoujol@uncc.edu | Volodymyr Habovda – vhabovda@uncc.edu

Industry Supporter: Mr. Lee Easter