

Table 3.3.8.1-1 (page 1 of 1)
Loss of Power Instrumentation

FUNCTION	REQUIRED CHANNELS PER DIVISION	SURVEILLANCE REQUIREMENTS	ALLOWABLE VALUE
1. Divisions 1 and 2 - 4 16 kV Emergency Bus Undervoltage			
a. Loss of Voltage - 4 16 kV basis	3	SR 3.3.8.1.1 SR 3.3.8.1.2 SR 3.3.8.1.3 SR 3.3.8.1.4	$\geq 2850 \text{ V}$ and $\leq 3090 \text{ V}$
b. Loss of Voltage - Time Delay	3	SR 3.3.8.1.2 SR 3.3.8.1.3 SR 3.3.8.1.4	≥ 2.67 seconds and ≤ 3.33 seconds
c. Degraded Voltage - 4 16 kV basis	3	SR 3.3.8.1.1 SR 3.3.8.1.2 SR 3.3.8.1.3 SR 3.3.8.1.4	$\geq 3689.0 \text{ V}$ and $\leq 3735.2 \text{ V}$
d. Degraded Voltage - Time Delay, No LOCA	3	SR 3.3.8.1.2 SR 3.3.8.1.3 SR 3.3.8.1.4	≥ 53.4 seconds and ≤ 66.6 seconds
e. Degraded Voltage - Time Delay, LOCA	3	SR 3.3.8.1.2 SR 3.3.8.1.3 SR 3.3.8.1.4	≥ 4.5 seconds and ≤ 5.7 seconds
2. Division 3 - 4 16 kV Emergency Bus Undervoltage			
a. Loss of Voltage - 4 16 kV basis	2	SR 3.3.8.1.1 SR 3.3.8.1.3 SR 3.3.8.1.4	$\geq 2831 \text{ V}$ and $\leq 3259 \text{ V}$
b. Loss of Voltage - Time Delay	2	SR 3.3.8.1.3 SR 3.3.8.1.4	≥ 2.67 seconds and ≤ 3.33 seconds
c. Degraded Voltage - 4.16 kV basis	2	SR 3.3.8.1.1 SR 3.3.8.1.2 SR 3.3.8.1.3 SR 3.3.8.1.4	$\geq 3674.0 \text{ V}$ and $\leq 3721.2 \text{ V}$
d. Degraded Voltage - Time Delay, No LOCA	2	SR 3.3.8.1.2 SR 3.3.8.1.3 SR 3.3.8.1.4	≥ 53.4 seconds and ≤ 66.6 seconds
e. Degraded Voltage - Time Delay, LOCA	2	SR 3.3.8.1.2 SR 3.3.8.1.3 SR 3.3.8.1.4	≥ 4.5 seconds and ≤ 5.7 seconds