Cable Type : Single core cable 1x1000 Kcmil Cu/XLPE/CWS+Lead/HDPE 69 kV
Circuit Configuration : Trefoil Formation
Bonding Method : Single End Bonding

A) **Induced Voltage at Nominal Condition Single Circuit:**

\[ I = \text{the rated current} = 371 \, \text{A} \]
\[ d = \text{mean diameter of metallic sheath} = 73.2 \, \text{mm} \]
\[ f = 60 \, \text{HZ} \]
\[ \omega = 2 \times \pi \times f = 2 \times \pi \times 60 = 377 \, \text{rad/s} \]

\[ E = j\omega I (2 \times 10^{-7}) (-1/2 \ln S/d + j \sqrt{3} / 2 \ln 2S/d) \]

\[ = 0.02 \, \text{V/m} \quad \text{at load current} \, 371 \, \text{A} \]