Umbilical - Full load Values to be changed.

Current	I	14.8	A	Temperature Correction	T =	1.0747
Length	L	5000	m			
Resistance	R	4.9	DegC			
Op Temp	Op T	39	DegC (Ave)			
				Total Power HVTF	=	57720 W
Volt Drop		(√3 x I x L x R x T) / 1000				
	=	674.9	v	Current at LV side of transformer	=	120.3 A
Voltage at Top	=	3900	v			
Voltage at Bottom	=	3225.1	v			

Umbilical - No load

Current	I	7.5	A	Temperature Correction	T =	1.0747
Length	L	5000	m			
Resistance	R	4.9	DegC			
Op Temp	Op T	39	DegC (Ave)			
				Total Power HVTF	=	29250 W
Volt Drop		(√3 x I x L x R x T) / 1000				
	=	342.0	v	Current at LV side of transformer	=	60.9 A
Voltage at Top	=	3900	v			
Voltage at Bottom	=	3558.0	v			

Deck Cable - Full load

Current	I	14.8	A	Temperature Correction	T =	1.0747
Length	L	30	m			
Resistance	R	4.9	DegC			
Op Temp	Op T	39	DegC (Ave)			
				Total Power HVTF	=	48840 W
Volt Drop		(√3 x I x L x R x T) / 1000				
	=	4.0	v	Current at LV side of transformer	=	101.8 A
Voltage at Top	=	3300	v			
Voltage at Bottom	=	3296.0	v			

Deck Cable - No load

Current	I	7.5	A	Temperature Correction	T =	1.0747
Length	L	30	m			
Resistance	R	4.9	DegC			
Op Temp	Op T	39	DegC (Ave)			

Volt Drop $= \frac{(\sqrt{3} \times I \times L \times R \times T)}{1000}$

= 2.1 v

Voltage at Top = 3300 v

Voltage at Bottom = 3297.9 v

Total Power HVTF = 24750 W

Current at LV side of transformer = 51.6 A

Umbilical - Start up

Current at HV side of transformer I = 59.2 A

Total Power HVTF = 230880 W

Current at LV side of transformer = 481.0 A

Deck Cable - Start up

Current at HV side of transformer I = 59.2 A

Total Power HVTF = 195360 W

Current at LV side of transformer = 407.0 A
