













Configurati on	Setpoints	Maximum Load on Bus 17 (MW)	Line Power Transfer (MW)	
			Line 4- 11	Line 4- 12
No FACTS	-	3235	1390	904
UPFC Var,Vd,Vq	(sh) I_{shqref} = 1.0 pu (se) V_{dref} = 0 pu, V_{qref} = -0.055 pu	3343	1469	904
UPFC V,Vd,Vq	(sh) $V_{ref} = 0.91 \text{ pu}$ (se) $V_{dref} = 0 \text{ pu}$, $V_{oref} = -0.055 \text{ pu}$	3340	1473	905



















			MDI Inde	ex		
	STATCOM		UPFC Series Vd,Vq Mode		UPFC Series P,Q Mode	
Local Signals	V Mode	Var Mode	Shunt V Mode	Shunt Var Mode	Shunt V Mode	Shunt Var Mode
V4	4.92	5.75	4.82	5.58	3.37	4.10
P4-11	26.10	25.09	22.81	21.08	16.82	15.43
lm4-11	67.95	58.43	60.17	58.54	16.34	14.84
_{n4-11} a as the JPFC i	s the dan highest I	nping inpu MDI indic <i>Va</i> mode.	it signal to es for the	o the shunt STATCO	regulato M and fo	r r the



